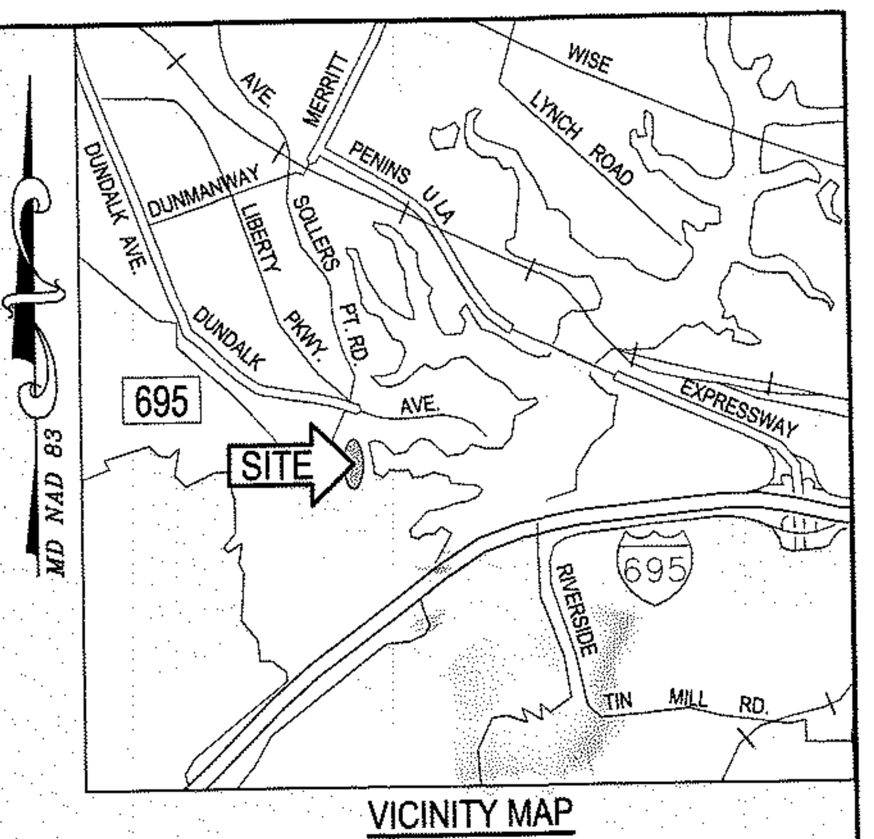
SOLLERS POINT MULTIPURPOSE CENTER TURF AND TRACK REPLACEMENT

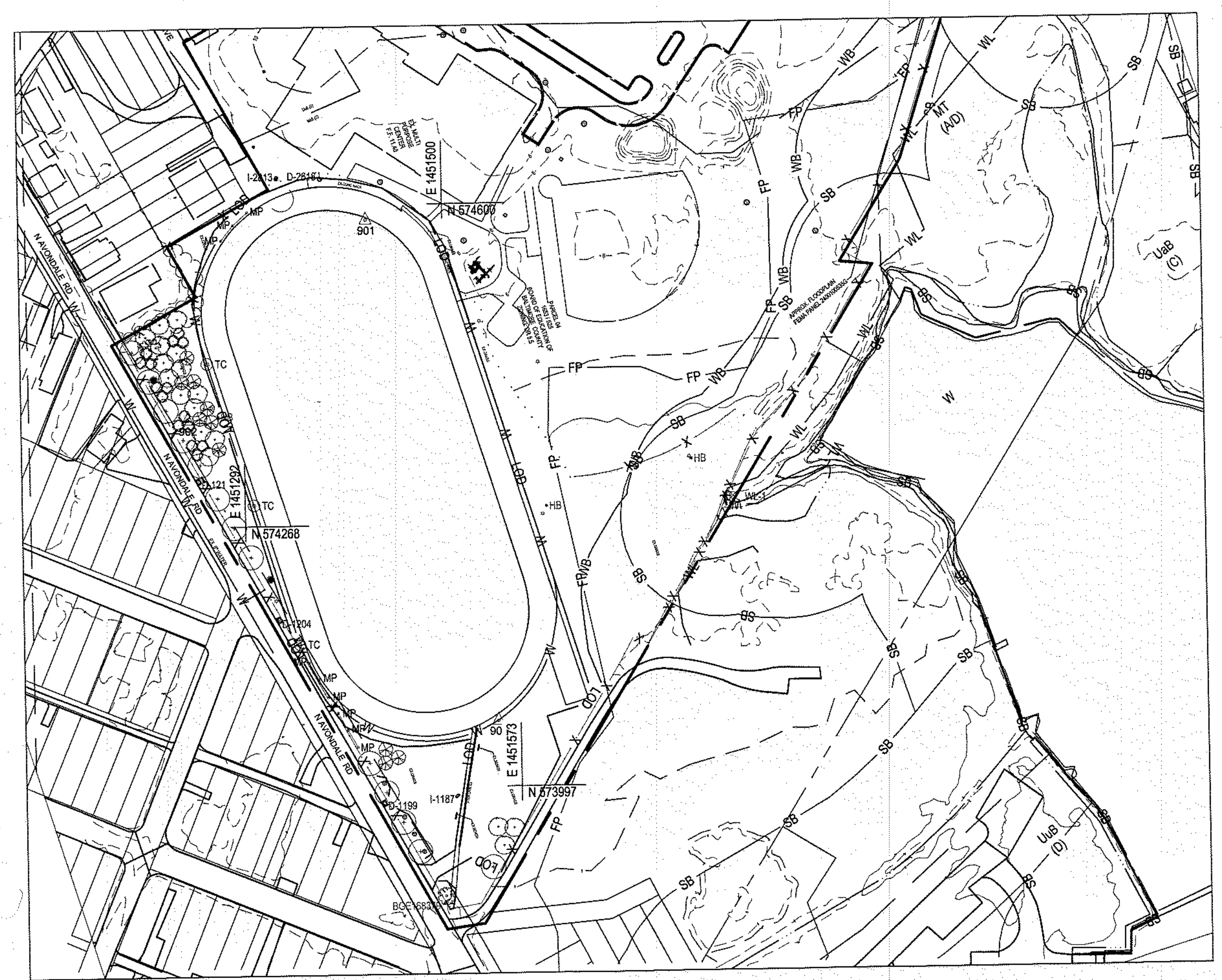
323 SOLLERS POINT RD, DUNDALK, MARYLAND 21222



VICINITY MAP
SCALE: 1" = 1000'

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WBCM IN MAY, 2020 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
2. COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83/2011 AS DETERMINED FROM REAL TIME KINEMATIC SURVEYING AS BROADCAST BY THE LEICA SMARTNET NETWORK.
3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY R.T.K. G.P.S. OBSERVATIONS AS BROADCAST BY THE LEICA SMARTNET NETWORK(GEOID18).
4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
8. THE CONTRACTOR SHALL STAKE-OUT ALL BASELINES OF CONSTRUCTION AND THE LOCATION OF ALL NEW CONSTRUCTION, AND VERIFY ALL SETBACKS, OFFSETS, AND CLEARANCES PRIOR TO START OF ANY WORK.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY INVERTS AND CLEARANCES FROM NEW WORK PRIOR TO START OF ANY WORK.
10. ALL DISTURBED AREAS NOT STABILIZED WITH STRUCTURES, PAVING, STONE OR PLANTINGS SHALL BE STABILIZED WITH FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER TO ESTABLISH AN ADEQUATE GROWTH OF GRASS.
11. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
12. THE TOPS OF ALL FRAMES, GRATES, AND COVERS OF ALL EXISTING UTILITIES TO REMAIN WITHIN THE LIMITS OF CONTRACT AND/OR DISTURBANCE SHALL BE ADJUSTED TO THE NEW GRADES.
13. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL PROVIDE ALL NEEDED LABOR, EQUIPMENT, AND MATERIALS TO PROTECT THE PROJECT SITE FROM PONDING WATER AND FLOODING.
14. NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERSEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
15. CONTRACTOR SHALL SUBMIT, FOR REVIEW AND APPROVAL, A WORK PLAN ADDRESSING TRAFFIC CONTROL FOR VEHICLES AND PEDESTRIAN, AND LAYDOWN AND STAGING AREAS FOR EQUIPMENT AND MATERIALS.



LOCATION MAP
SCALE: 1"=100'

UTILITY SCHEDULE

MH #	TOP	DIR.	INVERT	SIZE & TYPE
I-1000	5.48	S/E	3.04	4" TERRA
		S/W	1.80	8" TERRA
		N/E	1.67	8" TERRA
I-1008	5.47	S	3.36	4" TERRA
		N/E	2.57	8" TERRA
I-1015	5.56	S/W	3.19	4" TERRA
		N/W	2.71	8" TERRA
I-1022	5.53	S/W	2.95	4" TERRA
		S/E	2.23	8" TERRA
		N/E	2.31	8" TERRA
I-1029	5.58	S/W	3.27	4" TERRA
		S/E	2.24	8" TERRA
I-1036	5.52	S/W	3.16	4" TERRA
		S/E	2.57	8" TERRA
I-1043	5.40	S/W	3.28	4" TERRA
		N/W	2.60	8" TERRA
I-1051	5.54	S/W	3.12	4" TERRA
		S/E	2.23	8" TERRA
		N	2.15	8" TERRA
I-1058	5.45	S/W	3.12	4" TERRA
		N/E	2.22	8" TERRA
I-1066	5.48	S/W	3.30	4" TERRA
		S/E	2.61	8" TERRA
I-1073	5.40	S/W	3.19	4" TERRA
		N/E	2.75	8" TERRA
I-1080	5.47	N/W	3.25	4" TERRA
		S/W	2.47	8" TERRA
		N/E	2.43	8" TERRA
I-1088	5.42	N/W	3.16	4" TERRA
		E	2.19	8" TERRA
		S/W	2.16	8" TERRA
		N/E	2.15	
I-1096	5.41	N	3.28	4" TERRA
		S	2.62	8" TERRA
		W	2.55	8" TERRA
I-1104	5.48	N/E	3.09	4" TERRA
		S/E	2.40	8" TERRA
I-1111	5.52	N/E	3.22	4" TERRA
		N/W	2.30	8" TERRA
		S/E	2.33	8" TERRA

UTILITY SCHEDULE

MH #	TOP	DIR.	INVERT	SIZE & TYPE
I-1119	5.45	N/E	3.18	4" TERRA
		N/W	1.98	8" TERRA
		S/E	1.84	8" TERRA
I-1126	5.45	N/E	3.19	4" TERRA
		N/W	1.99	8" TERRA
		S/E	2.04	8" TERRA
I-1134	5.41	N/E	3.09	4" TERRA
		S/W	2.46	8" TERRA
		N/W	2.36	8" TERRA
I-1142	5.46	N/E	3.32	4" TERRA
		S/E	2.64	8" TERRA
I-1149	5.43	N/E	3.00	4" TERRA
		N/W	2.31	8" TERRA
		S/E	2.26	8" TERRA
I-1156	5.49	N/E	2.95	4" TERRA
		S/W	2.36	6" TERRA
		N/W	1.91	8" TERRA
		S/E	1.89	8" TERRA
I-1165	5.49	N/E	3.25	4" TERRA
		S/E	2.25	8" TERRA
		N/W	2.15	8" TERRA
I-1173	5.46	S/E	3.20	4" TERRA
		N	2.68	8" TERRA
I-1180	5.46	S/E	2.99	4" TERRA
		S/W	2.56	8" TERRA
I-1187	3.49	N	1.68	12" MTL
D-1199	5.05	W	2.19	15" RCP
D-1204	4.82	S/W	0.36	18" RCP
		S/W	0.34	27" RCP
		N/E	0.24	32x28" CMP
D-1215	4.40	S/W	1.87	12" CMP
		N/E	2.04	15" CMP
I-2084	5.60	S/W	3.30	4" TERRA
		N/W	2.24	8" TERRA
		S/E	2.25	8" TERRA
D-2618	6.09	S/W	1.54	9" PVC
		S/W	1.44	9" MTL
		N/E	1.34	9" MTL
I-2813	4.74	FILLER CLOTH COVERED		

PNV = PIPES NOT VISIBLE
NOTE: THE ABOVE INFORMATION REFLECT FIELD MEASUREMENTS & OBSERVATIONS AND THEY MAY DIFFER FROM PLANS BY OTHERS.(SEE GENERAL NOTES)

W.B.C.M. SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	574,064.44	1,451,549.92	5.15	REBAR & CAP
901	574,583.72	1,451,420.83	5.79	REBAR & CAP
902	574,378.35	1,451,234.22	4.79	REBAR & CAP

DRAWING LIST:

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
		CIVIL:
1	T100	COVER SHEET
2	C100	EXISTING CONDITIONS PLAN
3	C101	DEMOLITION PLAN
4	C200	SITE LAYOUT PLAN
5	C201	SITE DETAILS
6	C301	GRADING AND UTILITY PLAN
7	C302	GRADING AND UTILITY PLAN
8	C401	UTILITY PROFILES
9	C501	EROSION AND SEDIMENT CONTROL PLAN
10	C502	EROSION AND SEDIMENT CONTROL NOTES
11	C503	EROSION AND SEDIMENT CONTROL NOTES
12	C504	EROSION AND SEDIMENT CONTROL DETAILS
13	C505	EROSION AND SEDIMENT CONTROL DETAILS
14	C506	BUFFER MANAGEMENT PLAN
15	C507	BUFFER MANAGEMENT PLAN

BALTIMORE COUNTY ATF 09/15/2021
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
APPROVED FOR GRADING
09.15.21.
Date

STORMWATER MANAGEMENT PERMIT NOT REQUIRED

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL 9/9/21
Date
Jeffrey P. West
DISTRICT OFFICIAL
158-44H8-21
Plan No.
Technical Review for the District by:
Amy Musselman
This plan approval will expire three (3) years from the approval date.

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.
1"=100'-0" 100 0 50 100 200

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX
CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)
DWG. FILENAME:

SHEET DESIGNATION	CONTRACT NUMBER
2021-2869	22005 PO0

SIGNATURE OF OWNER/DEVELOPER: G M [signature] TITLE: FACILITIES CHIEF DATE: 8/31/2021

SEAL
BLAINE E. LINKOUS, MARYLAND, No. 34682, PROFESSIONAL ENGINEER
DATE 9/9/21
Sep 07, 2021 - 8:55am User: [illegible]

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23
ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM
Designing Infrastructure for Tomorrow®
DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT
				MNE	37 NE 32
			R.O.W NO.		38 NE 32
CONTRACT COMPLETION BOX					

DRAWING SCALE
PLAN SCALE: 1" = 100'
PROFILE SCALE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: DIRECTOR
DATE:
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: CHIEF
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

TITLE SHEET

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

JOB ORDER NUMBER
242-212-307-0472

DRAWING NUMBER
T100
FILE NO.:
REV. 01/17

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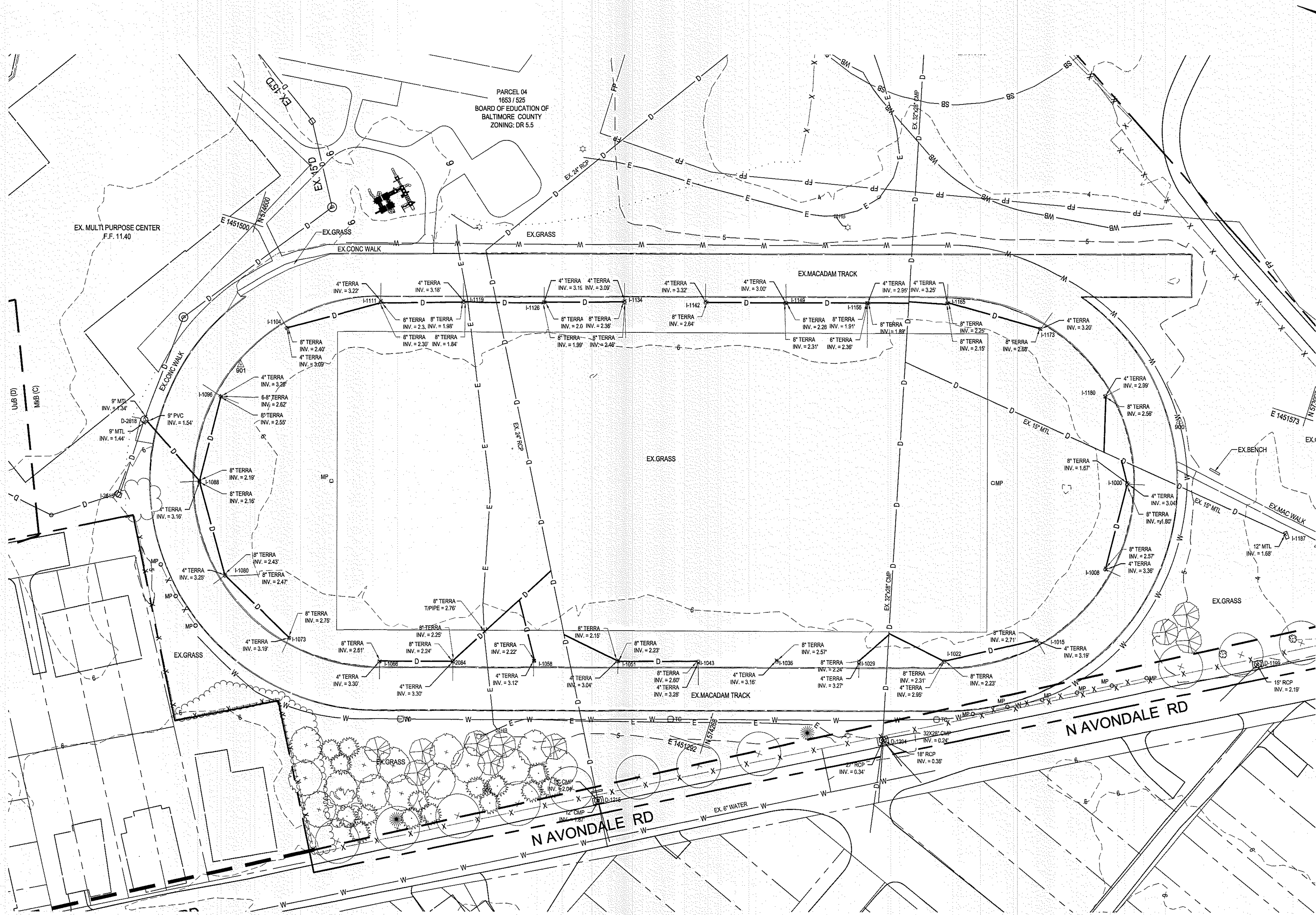
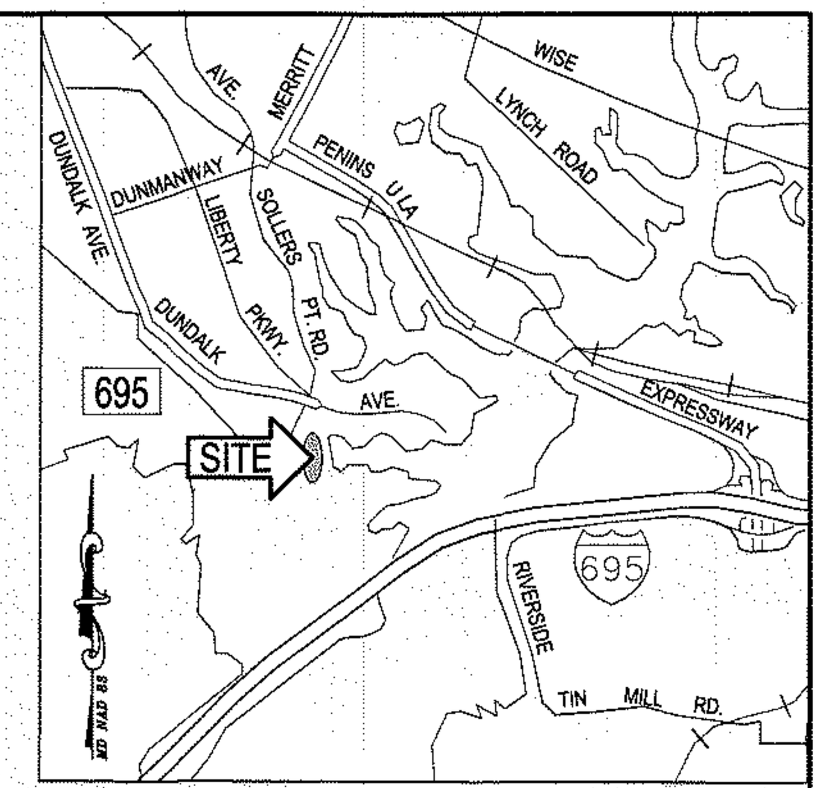


PLAN VIEW

SCALE: 1" = 30'



VICINITY MAP

SCALE: 1" = 2000'

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
CLEAN OUT	C.O.	
DRAIN INLET		
FIRE HYDRANT		
POWER POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION	900	
WATER VALVE		
SPOT ELEVATION	× 4.5	+ 4.5
MAJOR CONTOUR	5	5
MINOR CONTOUR	4	4
CONC. CURB		
SURVEY LIMITS		
WOOD FENCE	X X	X X X
GUARDRAIL		
U/G ELECTRIC	E	
U/G STORM	D	
UG WATER	W	
U/G TELEPHONE	T	
U/G IRRIGATION	IRR	

SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	574,064.44	1,451,549.92	5.15	REBAR & CAP
901	574,583.72	1,451,420.83	5.79	REBAR & CAP
902	574,378.35	1,451,234.22	4.79	REBAR & CAP

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

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ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX

CONTRACTOR: ____
DATE COMPLETED: ____
INSPECTOR: ____
PIPE MATERIAL (Pressure Only) ____

DWG. FILENAME:

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

1"=30'-0" 30 0 15 30 60

G M [signature] FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

SEAL	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE		DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND, BLAINE WADE LINKOUS, PROFESSIONAL ENGINEER; DATE: 9/7/21	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 34682, EXPIRATION DATE 07/08/23.				R.O.W NO.	MNE	37 NE 32 38 NE 32	PLAN SCALE:	1" = 30'	APPROVED BY: ____ DIRECTOR DATE: ____
		CONTRACT COMPLETION BOX						PROFILE SCALE:		
	ENGINEER: BLAINE LINKOUS, BLINKOUS@WBCM.COM; WBCM Designing Infrastructure for Tomorrow; DGN BY: K.H.; DWN BY: H.H.; CHKD BY: B.L.	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
		REVIEWED BY:								APPROVED BY: ____ CHIEF
		DATE REVIEWED:								DATE: ____

Sep 07, 2021 - 8:55am User: khaley
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BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT
EXISTING CONDITIONS PLAN

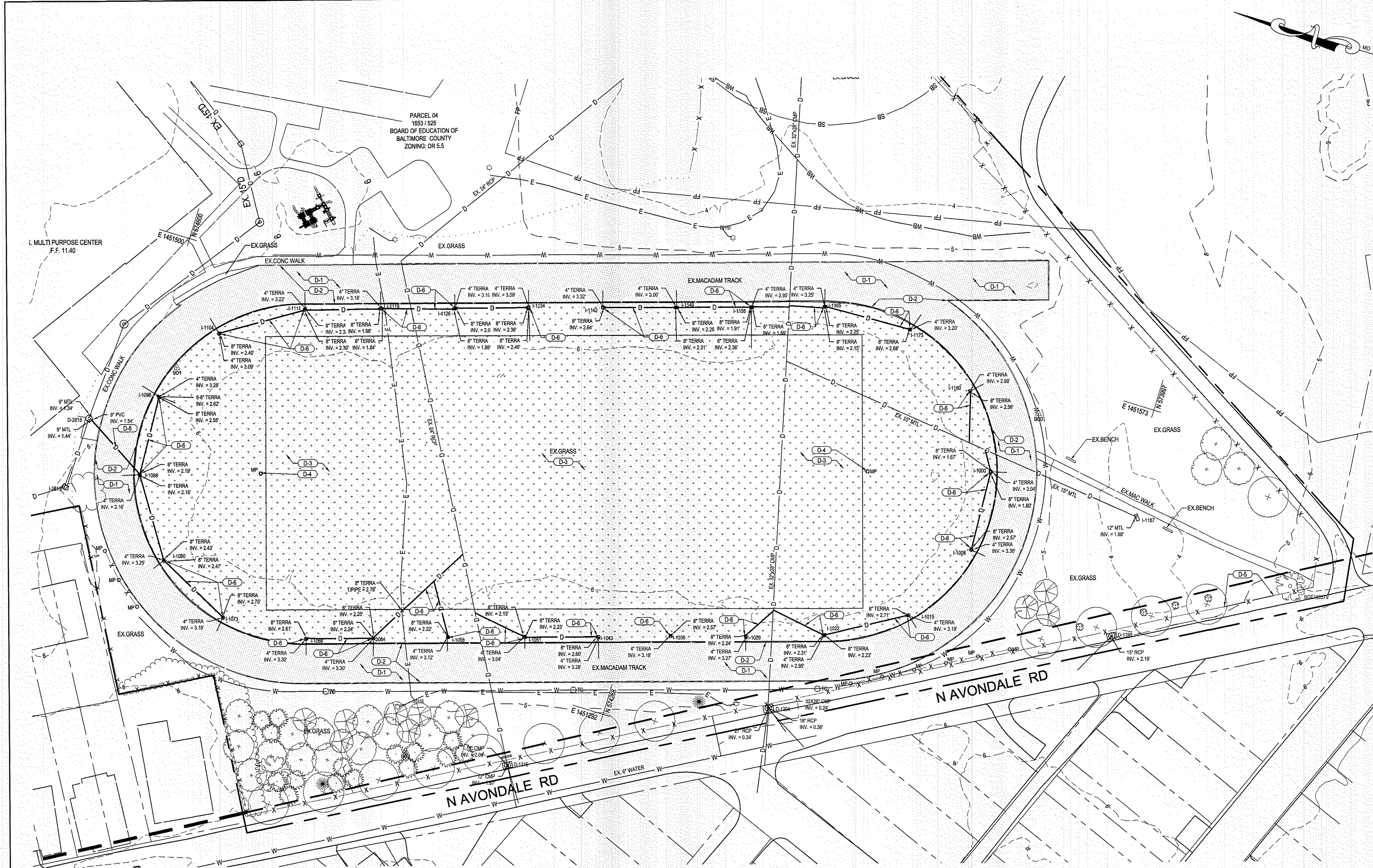
SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

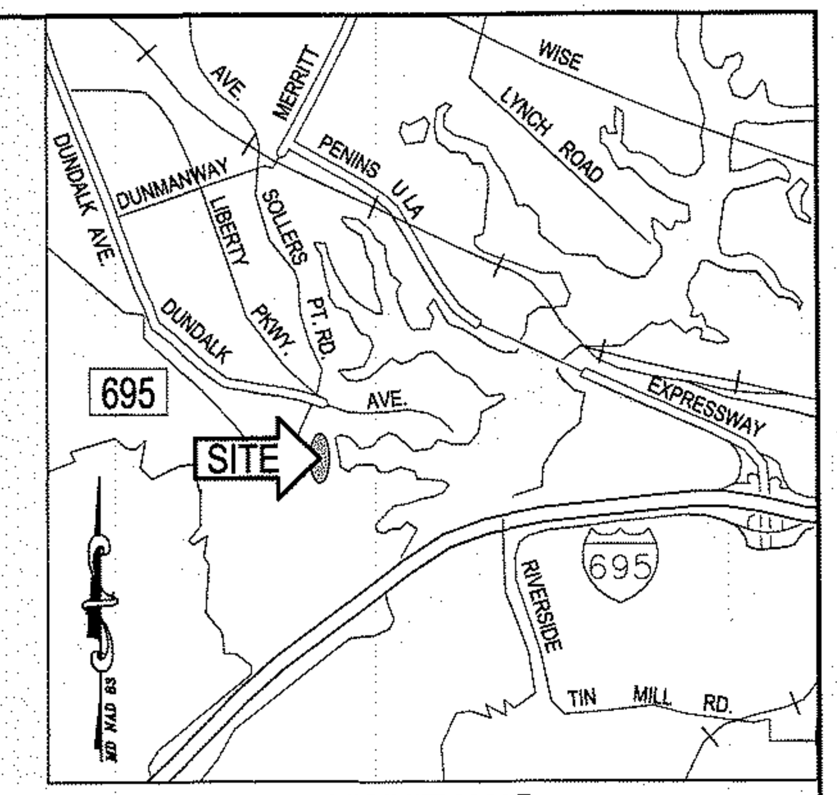
BALTIMORE COUNTY MARYLAND

SHEET DESIGNATION	CONTRACT NUMBER
2021-2870	22005 PO0
	JOB ORDER NUMBER: 242-212-307-0472
	SHEET 2 OF 15
	DRAWING NUMBER: C100
	FILE NO.:



PLAN VIEW

SCALE: 1" = 30'



VICINITY MAP

SCALE: 1" = 1000'

DESCRIPTION	EXISTING	REMOVE
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
CLEAN OUT	C.O.	
DRAIN INLET		
FIRE HYDRANT		
POWER POLE		
SANITARY MH	S	
SIGN (ONE-POST)		
STORM DRAIN MH	D	
STREET LIGHT		
TRAVERSE STATION	900	
WATER VALVE		
SPOT ELEVATION	× 4.5	
MAJOR CONTOUR	5	
MINOR CONTOUR	4	
CONC. CURB		
SURVEY LIMITS		
WOOD FENCE	X X	X
GUARDRAIL		
U/G ELECTRIC	E	E
U/G STORM	D	D
UG WATER	W	
U/G TELEPHONE	T	
U/G IRRIGATION	IRR	
FLOW ARROW		
SOIL BORING	B#	
SOIL LINE	MkB (C) / UuB (D)	
FLOOD PLAIN	FP	
CRITICAL AREA BUFFER	SB	

DEMOLITION

- D-1 REMOVE BITUMINOUS CONCRETE PAVING (TRACK).
- D-2 REMOVE CONCRETE CURB AND GUTTER.
- D-3 STRIP AND STOCKPILE EXISTING GRASS/TOPSOIL TO THE EXTENTS NECESSARY TO REGRADE FIELD.
- D-4 REMOVE AND STORE EXISTING GOAL POSTS.
- D-5 REMOVE AND SALVAGE EXISTING FENCE AND POSTS.
- D-6 REMOVE EXISTING STORM DRAIN STRUCTURES AND CONNECTING PIPES.

NOTES

1. ANY DAMAGE TO EXISTING FEATURES NOT INCLUDED IN THIS SCOPE OF WORK SHOULD BE RETURNED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX

CONTRACTOR: ______
DATE COMPLETED: ______
INSPECTOR: ______
PIPE MATERIAL (Pressure Only) ______

DWG. FILENAME:

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

1"=30'-0"   30   0   15   30   60

SIGNATURE OF OWNER/DEVELOPER: G M [signature] | TITLE: FACILITIES CHIEF | DATE: 8/31/2021

SEAL: BLAINE WADE LINKOUS, PROFESSIONAL ENGINEER, STATE OF MARYLAND, No. 34682
DATE: 9/7/21

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM — Designing Infrastructure for Tomorrow®

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
			R.O.W NO.	MNE	37 NE 32 38 NE 32	PLAN SCALE:	1" = 30'
CONTRACT COMPLETION BOX						PROFILE SCALE:	

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: ______ DIRECTOR
DATE: ______

BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ______ CHIEF
DATE: ______

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

DEMOLITION PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

SHEET DESIGNATION	CONTRACT NUMBER
2021-2871	22005 PO0

JOB ORDER NUMBER: 242-212-307-0472
SHEET 3 OF 15
DRAWING NUMBER: C101
FILE NO.:

Sep 07, 2021 - 8:55am User: khalby
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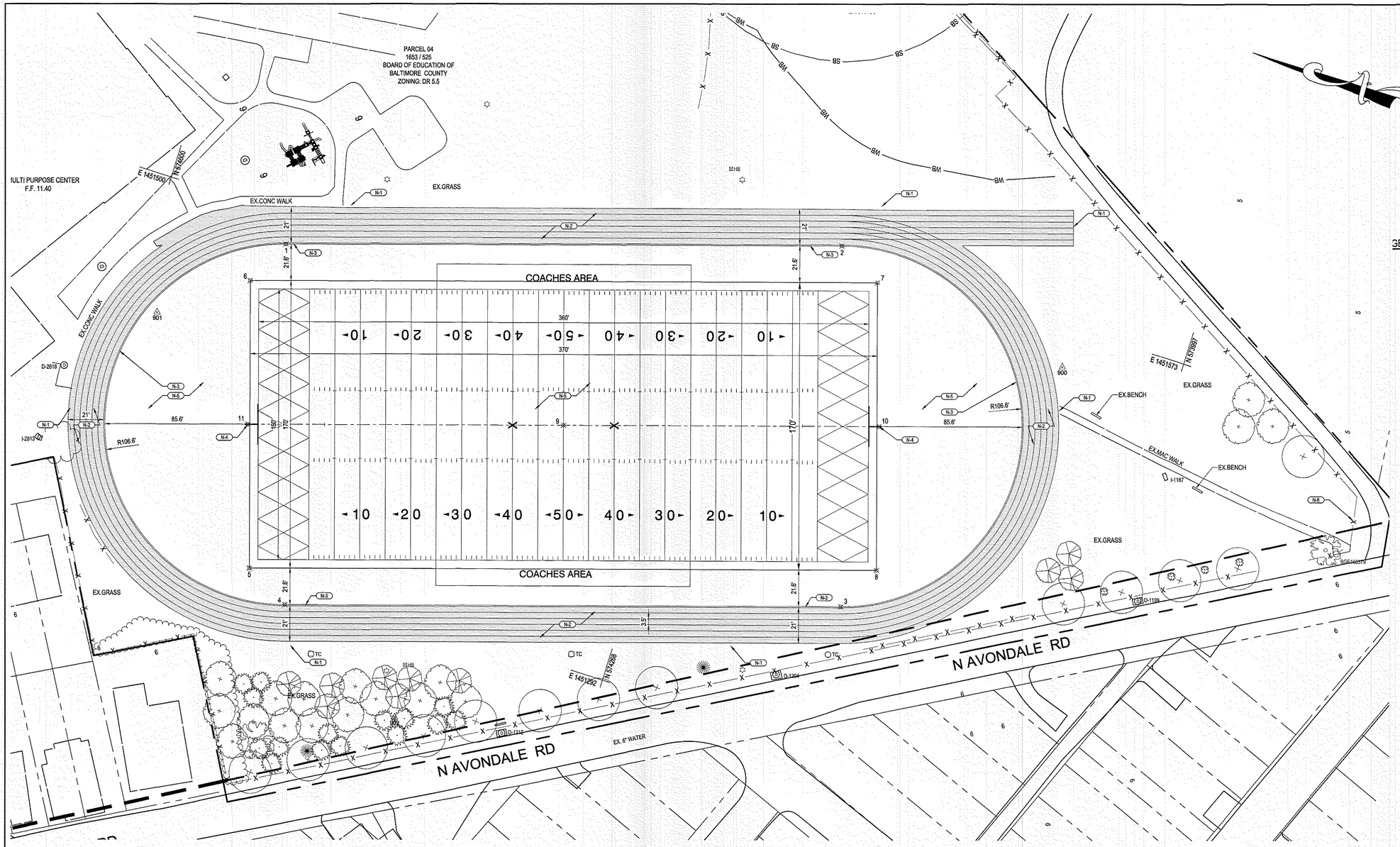
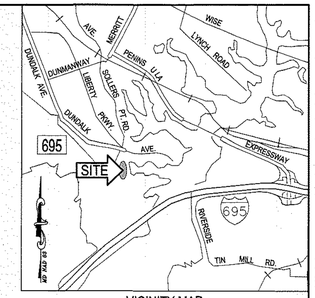


PLAN VIEW
SCALE: 1" = 30'



VICINITY MAP
SCALE: 1" = 1000'

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
CLEAN OUT	⊚ c.o.	⊚
DRAIN INLET		
FIRE HYDRANT		
POWER POLE		
SANITARY MH	Ⓢ	
SIGN (ONE-POST)		
STORM DRAIN MH	Ⓓ	
STREET LIGHT		
TRAVERSE STATION	△900	
WATER VALVE		
SPOT ELEVATION	× 4.5	+ 4.5
MAJOR CONTOUR	5	5
MINOR CONTOUR	4	4
CONC. CURB		
SURVEY LIMITS		
WOOD FENCE	X X	X X X
GUARDRAIL		
U/G ELECTRIC	E	
U/G STORM	D	
U/G WATER	W	
U/G TELEPHONE	T	
U/G IRRIGATION	IRR	
FLOW ARROW		
SOIL BORING	B# MkB (C) UuB (D)	
SOIL LINE	FP	
FLOOD PLAIN	SB	
CRITICAL AREA BUFFER		

GEOMETRY POINT TABLE

PT #	DESCRIPTION	NORTHING	EASTING
1	PT CONCRETE CURB	574523.17	1451482.11
2	PC CONCRETE CURB	574209.77	1451579.15
3	PT CONCRETE CURB	574146.71	1451375.49
4	PC CONCRETE CURB	574460.11	1451278.44
5	CORNER FIELD	574486.52	1451292.88
6	CORNER FIELD	574536.80	1451455.27
7	CORNER FIELD	574183.36	1451564.72
8	CORNER FIELD	574133.08	1451402.32
9	CENTER FIELD	574334.94	1451428.80
10	CENTER GOAL POST	574157.05	1451483.92
11	CENTER GOAL POST	574512.83	1451373.70

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONSTRICTION NOTES

N-1 MEET EXISTING CONDITIONS.
N-2 NEW BITUMINOUS TRACK, SEE DETAIL 1 ON SHEET C201.
N-3 NEW CONCRETE CURB, SEE DETAIL 2 ON SHEET C201.
N-4 INSTALL GOAL POST AND FOUNDATION, SEE DETAIL 3 ON SHEET C201.
N-5 NEW NATURAL GRASS FIELD.

CONTRACT COMPLETION BOX
CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)

DWG. FILENAME:

SIGNATURE OF OWNER/DEVELOPER — TITLE: FACILITIES CHIEF — DATE: 8/31/2021

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=30'-0" (30 0 15 30 60)

SEAL: BLAINE TRADE LINKOUS — MARYLAND — No. 34682 — PROFESSIONAL ENGINEER — DATE OF SEAL 9/7/21

PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 34682 EXPIRATION DATE 07/08/23			
	CONTRACT COMPLETION BOX		

ENGINEER: BLAINE LINKOUS — BLINKOUS@WBCM.COM — WBCM Designing Infrastructure for Tomorrow

DGN BY: K.H. — DWN BY: N.H. — CHKD BY: B.L.

P.W.A. NO.	KEY SHEET	POSITION SHT
R.O.W NO.	MNE	37 NE 32 38 NE 32

DRAWING SCALE: PLAN SCALE: 1" = 30' — PROFILE SCALE:

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: _____ DIRECTOR
DATE: _____

BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: _____ CHIEF
DATE: _____

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

SITE LAYOUT PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

SHEET DESIGNATION	CONTRACT NUMBER
2021-2872	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 4 OF 15
	DRAWING NUMBER
	C200
	FILE NO.: REV. 10/19

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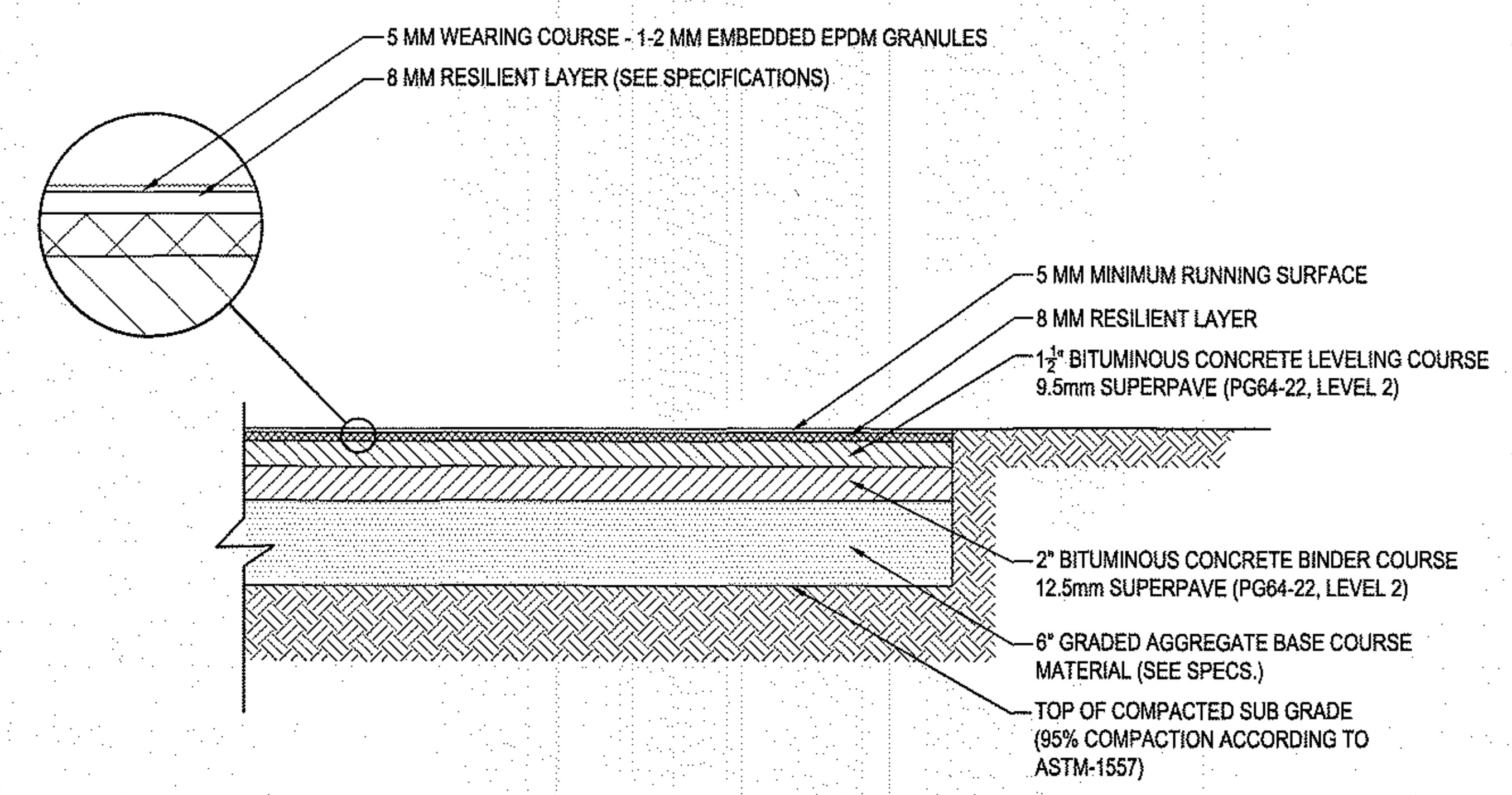
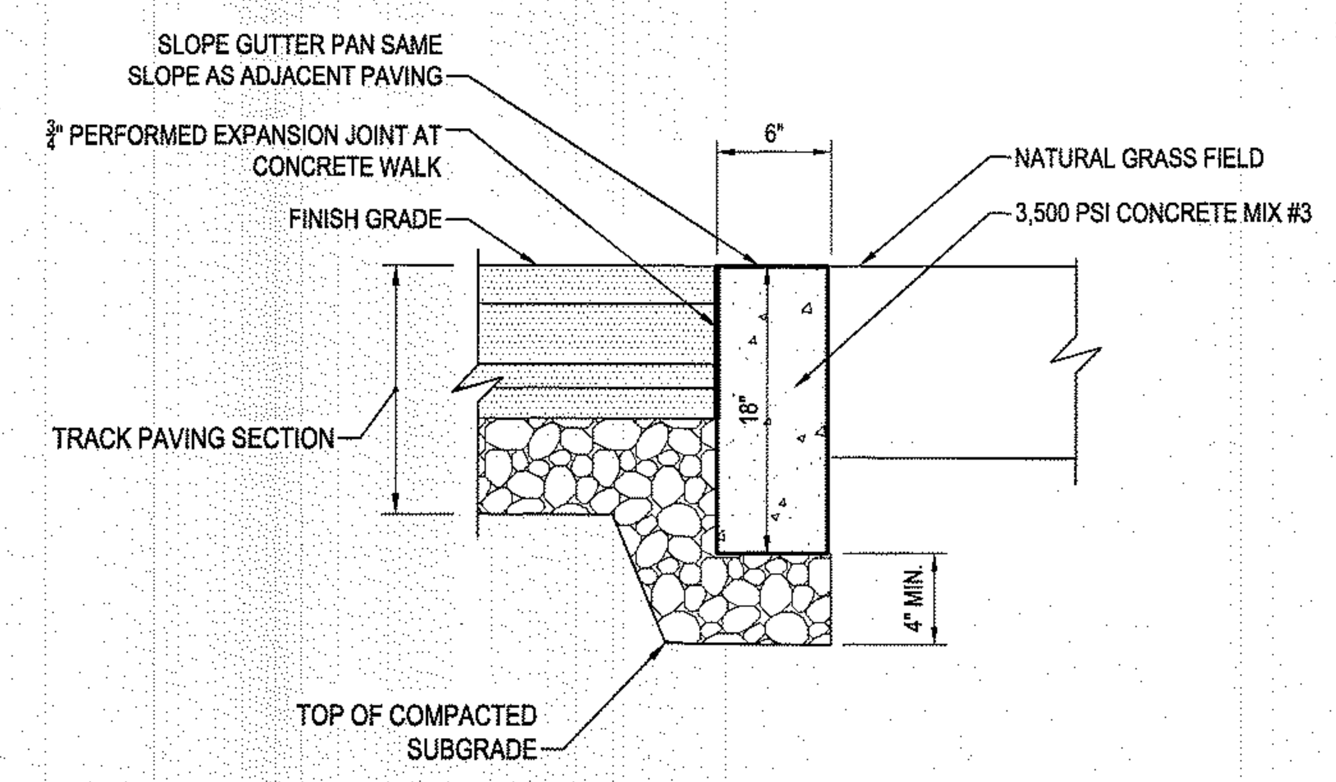


5 MM WEARING COURSE - 1-2 MM EMBEDDED EPDM GRANULES
8 MM RESILIENT LAYER (SEE SPECIFICATIONS)
5 MM MINIMUM RUNNING SURFACE
8 MM RESILIENT LAYER
1½" BITUMINOUS CONCRETE LEVELING COURSE 9.5mm SUPERPAVE (PG64-22, LEVEL 2)
2" BITUMINOUS CONCRETE BINDER COURSE 12.5mm SUPERPAVE (PG64-22, LEVEL 2)
6" GRADED AGGREGATE BASE COURSE MATERIAL (SEE SPECS.)
TOP OF COMPACTED SUB GRADE (95% COMPACTION ACCORDING TO ASTM-1557)

SECTION

1 C201 TRACK PAVING SECTION

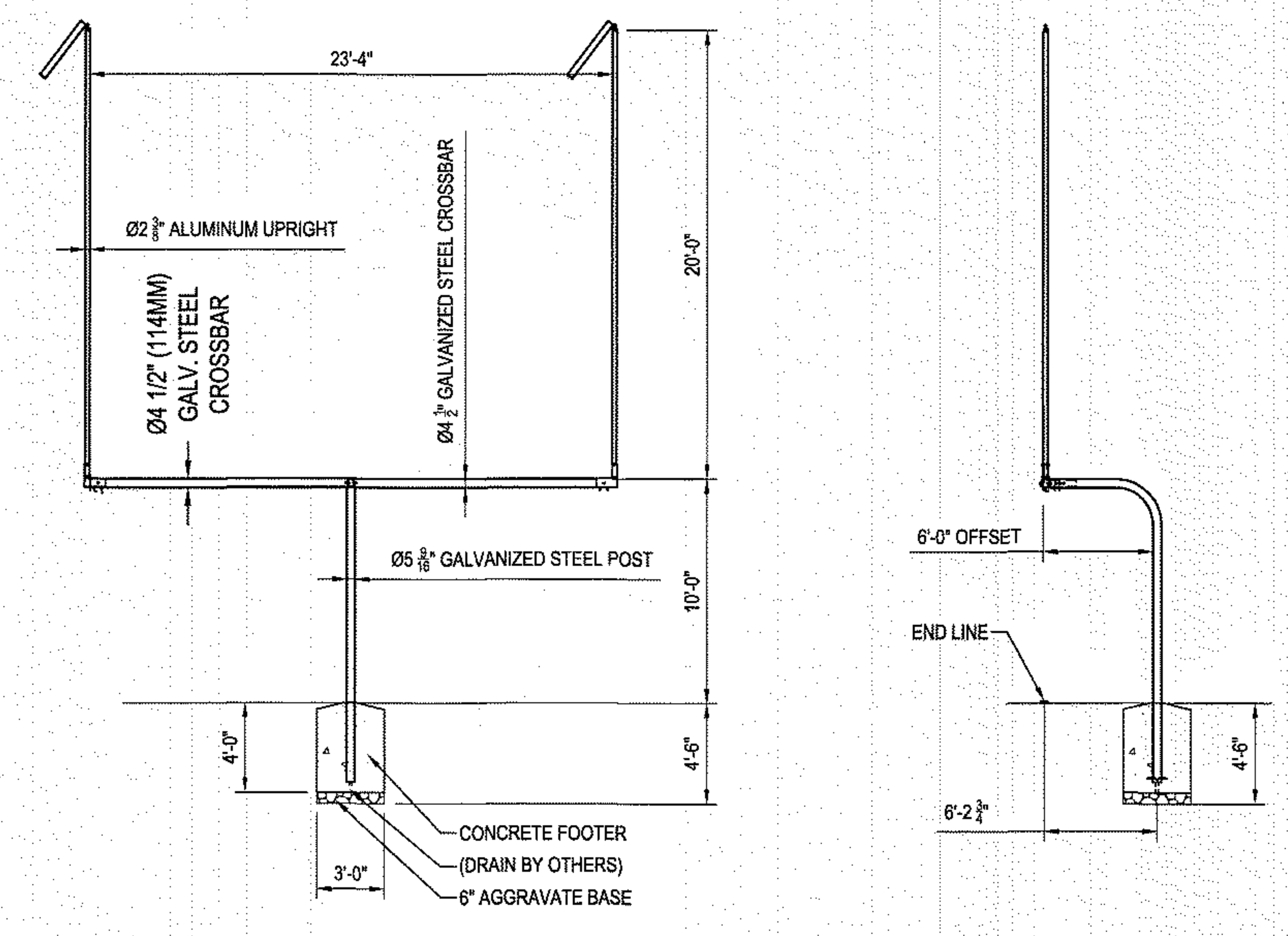
NOT TO SCALE



SECTION

2 C201 CONCRETE FLUSH CURB

SCALE: 1" = 1'-0"



SIDE VIEW

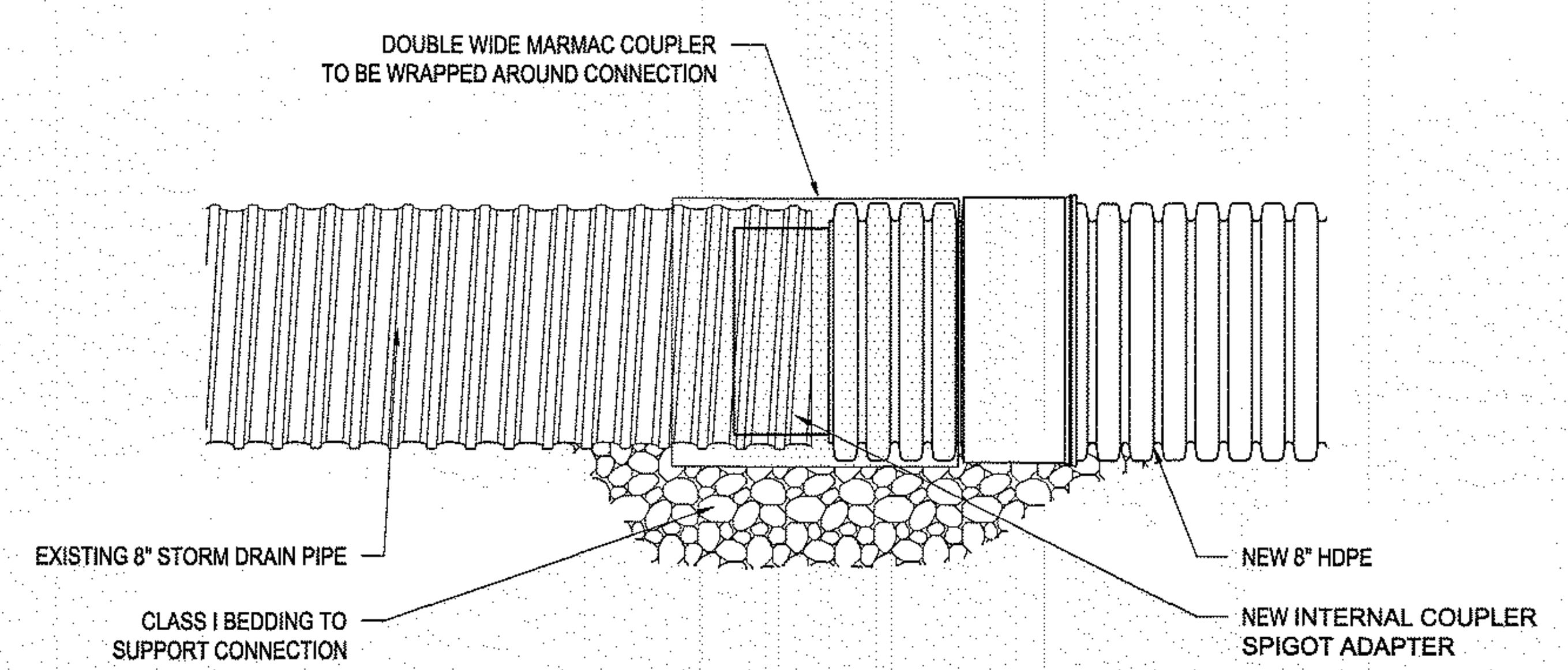
FRONT VIEW

NOTES:

1. GOOSENECK AND CROSSBAR ARE GALVANIZED STEEL UPRIGHT ARE HEAVY WALL ALUMINUM TUBING.
2. CROSSBAR RETAINS LEVEL BY SET SCREWS & LOCKING BOLT.
3. GOOSENECK, CROSSBAR & UPRIGHTS CAN BE FURNISHED IN EITHER WHITE OR YELLOW POWDER COAT FINISH. CUSTOMER TO SPECIFY COLOR AT TIME OF ORDER.
4. THREADED ROD INSTALLED IN POST PREVENTS GOAL POST ROTATION IN CONCRETE.

3 C201 GOAL POST AND FOOTER

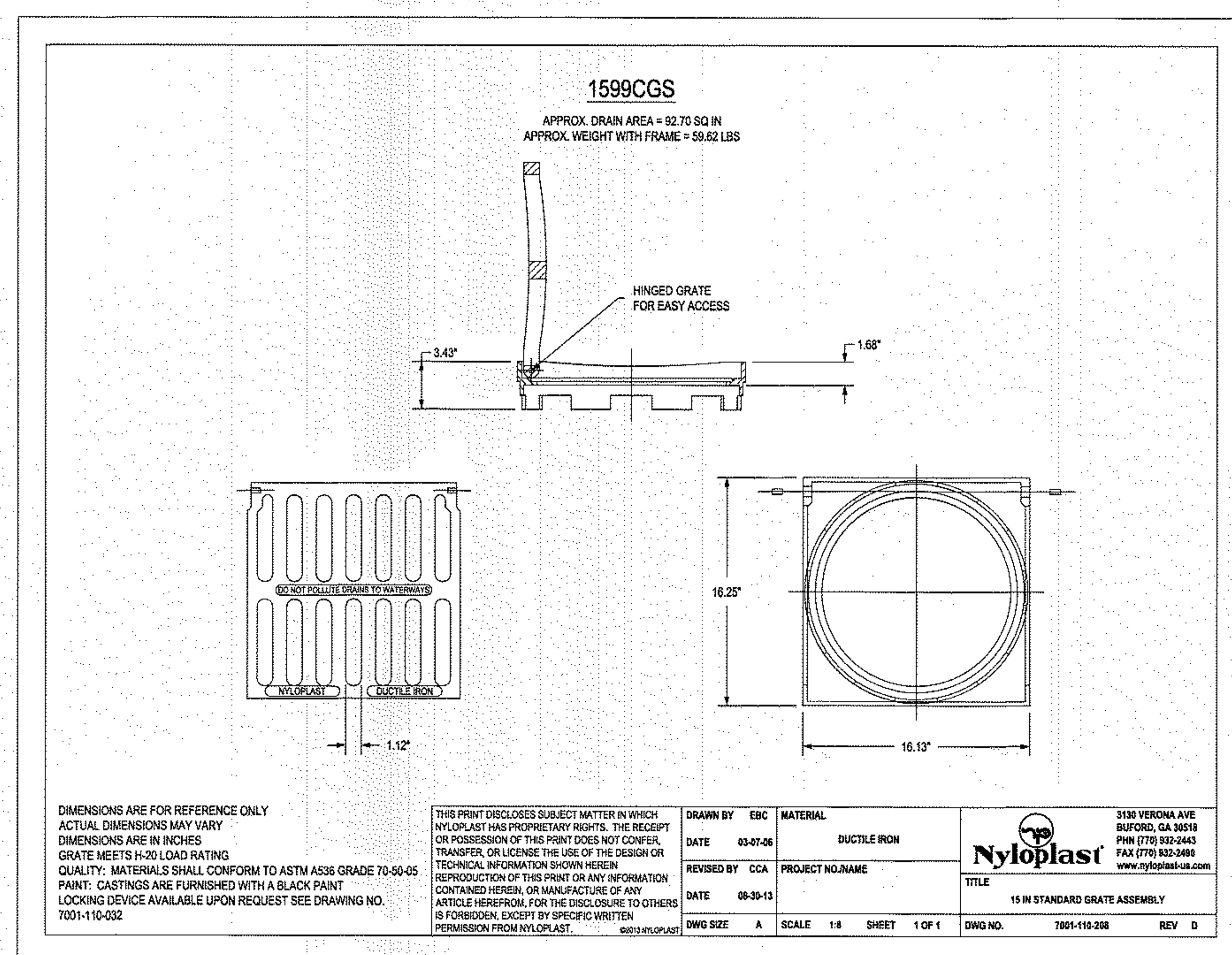
NOT TO SCALE



SECTION

4 C201 COUPLER ADAPTER

NOT TO SCALE



1599CGS
APPROX. DRAIN AREA = 92.70 SQ IN
APPROX. WEIGHT WITH FRAME = 59.62 LBS
HINGED GRATE FOR EASY ACCESS
3.43"
1.68"
DO NOT POLLUTE DRAINS TO WATERWAYS
NYLOPLAST
DUCTILE IRON
1.12"
16.25"
16.13"
DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-032
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.
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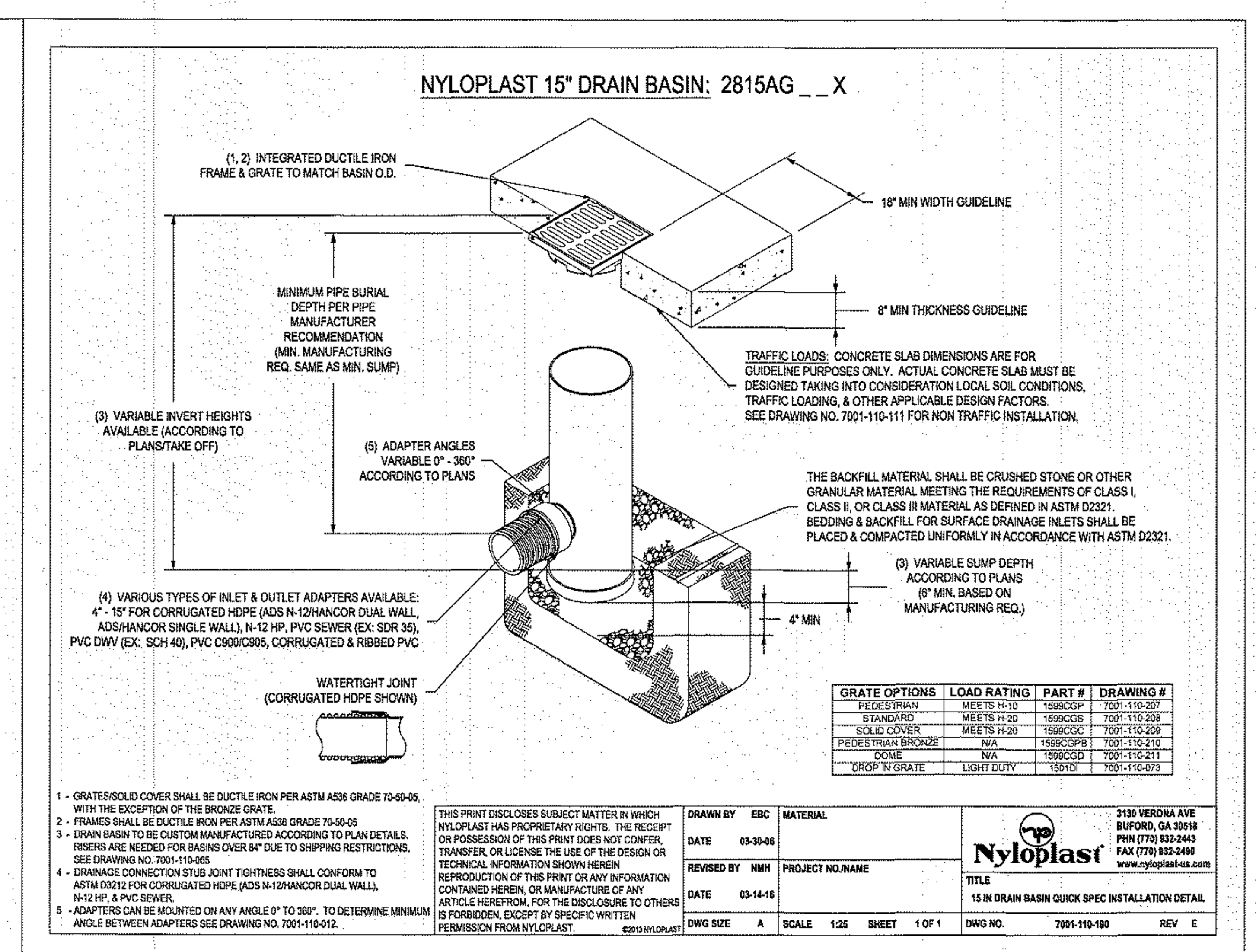
DRAWN BY EBC
DATE 03-07-06
REVISED BY CCA
DATE 08-30-13
DWG SIZE A
MATERIAL
DUCTILE IRON
PROJECT NO./NAME
SCALE 1:8
SHEET 1 OF 1
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com
TITLE
15 IN STANDARD GRATE ASSEMBLY
DWG NO. 7001-110-208
REV D



NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X
(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
18" MIN WIDTH GUIDELINE
8" MIN THICKNESS GUIDELINE
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)
4" MIN
(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 15" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
GRATE OPTIONS | LOAD RATING | PART # | DRAWING #
PEDESTRIAN | MEETS H-10 | 1599CGP | 7001-110-207
STANDARD | MEETS H-20 | 1599CGS | 7001-110-208
SOLID COVER | MEETS H-20 | 1599CGC | 7001-110-209
PEDESTRIAN BRONZE | N/A | 1599CGPB | 7001-110-210
DOME | N/A | 1599CGD | 7001-110-211
DROP IN GRATE | LIGHT DUTY | 1501DI | 7001-110-073
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.
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DRAWN BY EBC
DATE 03-30-06
REVISED BY NMH
DATE 03-14-16
DWG SIZE A
MATERIAL
PROJECT NO./NAME
SCALE 1:25
SHEET 1 OF 1
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com
TITLE
15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-190
REV E

5 C201 NYLOPLAST DRAIN BASIN

NOT TO SCALE

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX

CONTRACTOR: ____
DATE COMPLETED: ____
INSPECTOR: ____
PIPE MATERIAL (Pressure Only) ____

DWG. FILENAME:

G M Lowe — FACILITIES CHIEF — 8/31/2021

SIGNATURE OF OWNER/DEVELOPER — TITLE — DATE

SEAL: STATE OF MARYLAND — BLAINE WADE LINKOUS — PROFESSIONAL ENGINEER — No. 34682

DATE: 9/7/21

Sep 07, 2021 - 8:56am User: knaley

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM

WBCM — Designing Infrastructure for Tomorrow

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
				MNE	37 NE 32 38 NE 32	PLAN SCALE:	1" = 30'
			R.O.W NO.			PROFILE SCALE:	
CONTRACT COMPLETION BOX							

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: ____ DIRECTOR
DATE: ____
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ____ CHIEF
DATE: ____

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

SITE DETAILS

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2873	22005 PO0

BALTIMORE COUNTY MARYLAND

JOB ORDER NUMBER
242-212-307-0472

SHEET 5 OF 15

DRAWING NUMBER
C201

FILE NO.:

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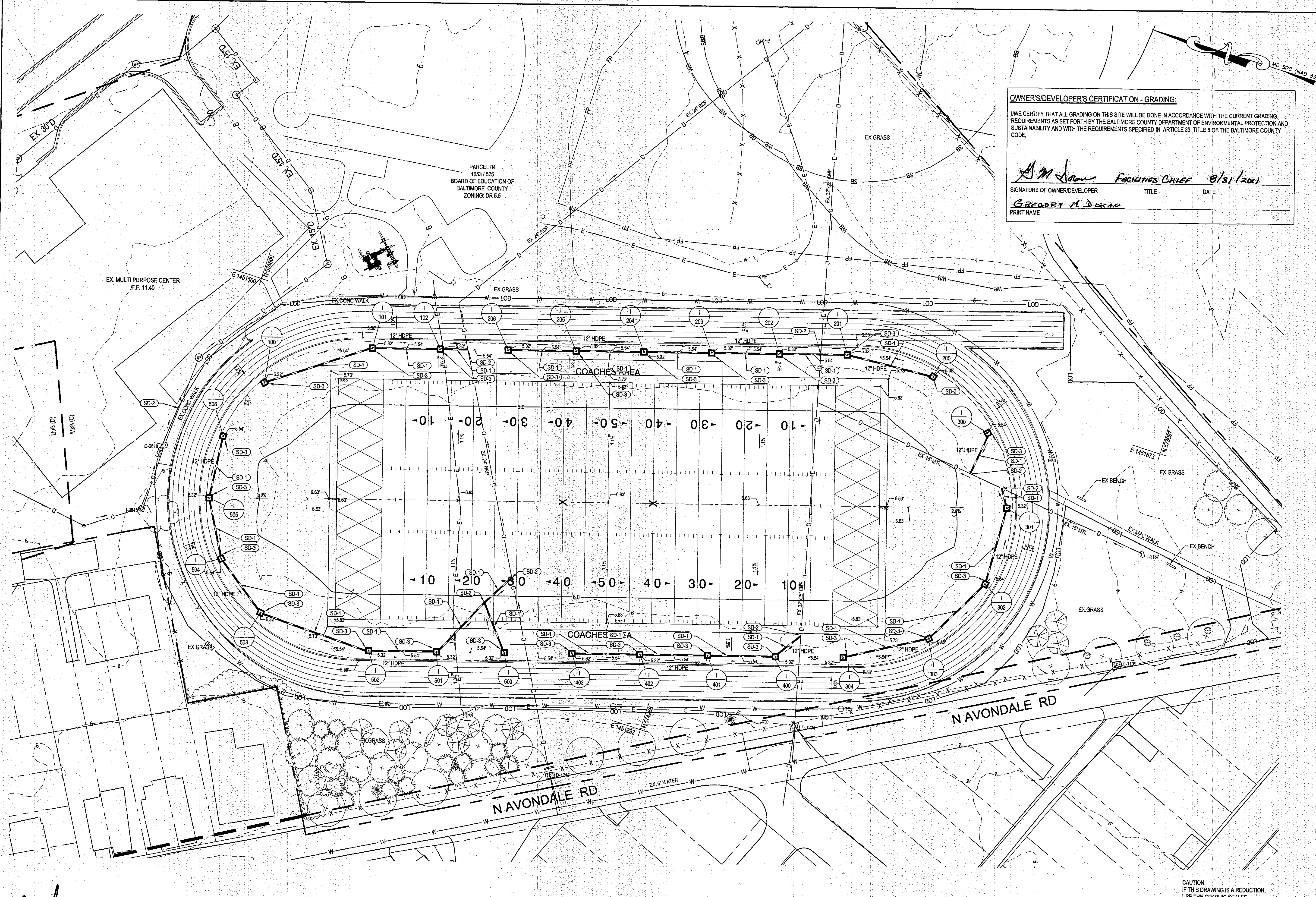
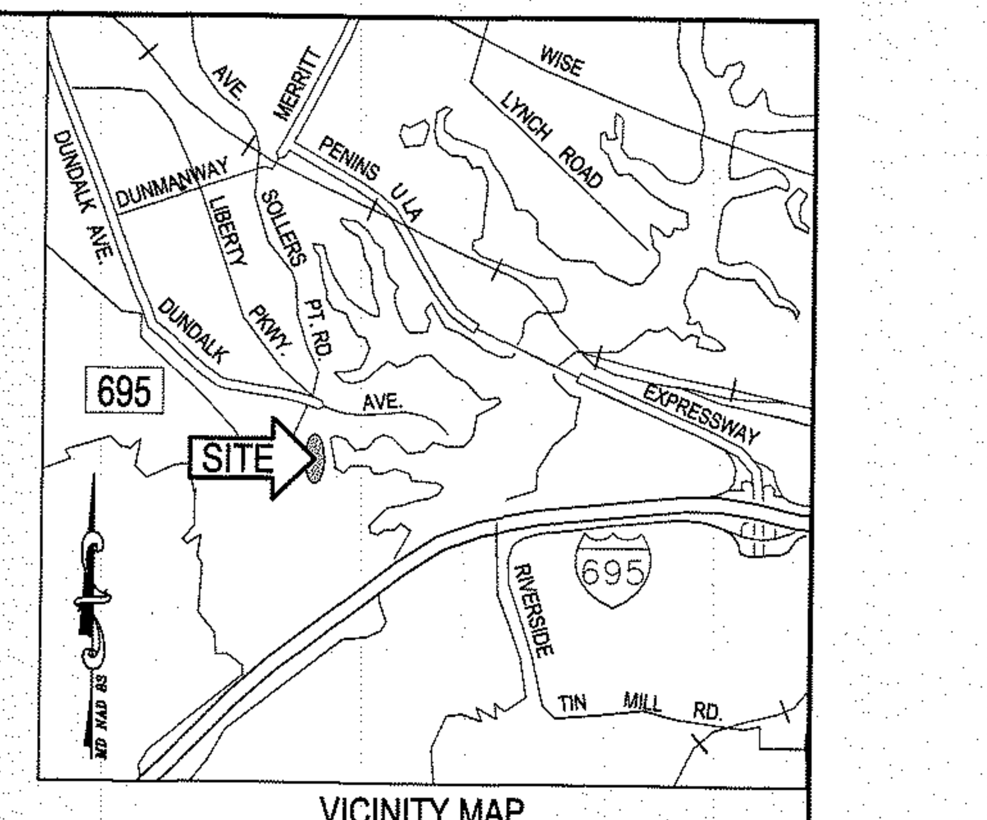


OWNER'S/DEVELOPER'S CERTIFICATION - GRADING:

I/WE CERTIFY THAT ALL GRADING ON THIS SITE WILL BE DONE IN ACCORDANCE WITH THE CURRENT GRADING REQUIREMENTS AS SET FORTH BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND WITH THE REQUIREMENTS SPECIFIED IN ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE.

SIGNATURE OF OWNER/DEVELOPER	TITLE	DATE
[signature]	FACILITIES CHIEF	8/31/2021

PRINT NAME: GREGORY M. DORAN



VICINITY MAP

SCALE: 1" = 1000'

LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
CLEAN OUT	
DRAIN INLET	
FIRE HYDRANT	
POWER POLE	
SANITARY MH	
SIGN (ONE-POST)	
STORM DRAIN MH	
STREET LIGHT	
TRAVERSE STATION	900
WATER VALVE	
SPOT ELEVATION	× 4.5
MAJOR CONTOUR	5
MINOR CONTOUR	4
CONC. CURB	
SURVEY LIMITS	
WOOD FENCE	X
GUARDRAIL	
U/G ELECTRIC	E
U/G STORM	D
UG WATER	W
U/G TELEPHONE	T
U/G IRRIGATION	IRR
FLOW ARROW	
SOIL BORING	B#
SOIL LINE	MkB (C) UuB (D)
FLOOD PLAIN	FP
CRITICAL AREA BUFFER	

GRADING LEGEND

NEW MAJOR CONTOUR	5
NEW MINOR CONTOUR	4
NEW SPOT ELEVATION	4.50
FLOW ARROW	
NEW STORM DRAIN	
NEW INLET	
NEW INLET	1 / #
LIMIT OF DISTURBANCE	LOD

STORM DRAIN NOTES

SD-1 PROPOSED 12" HDPE PIPE.
SD-2 PROPOSED PIPE COUPLER, SEE DETAIL #4 ON SITE DETAILS.,
SD-3 PROPOSED 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY, SEE DETAIL #5 ON SITE DETAILS.

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

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ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX

CONTRACTOR: ______
DATE COMPLETED: ______
INSPECTOR: ______
PIPE MATERIAL (Pressure Only) ______

DWG. FILENAME:

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.

1"=30'-0" (30 0 15 30 60)

SEAL: BLAINE WADE LINKOUS, STATE OF MARYLAND, PROFESSIONAL ENGINEER, No. 34682
DATE 9/7/21

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM — Designing Infrastructure for Tomorrow®

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
						PLAN SCALE:	1" = 30'
			R.O.W NO.	MNE	37 NE 32 38 NE 32	PROFILE SCALE:	
CONTRACT COMPLETION BOX							

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS

APPROVED BY: ______ DIRECTOR
DATE: ______

BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ______ CHIEF
DATE: ______

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

GRADING PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

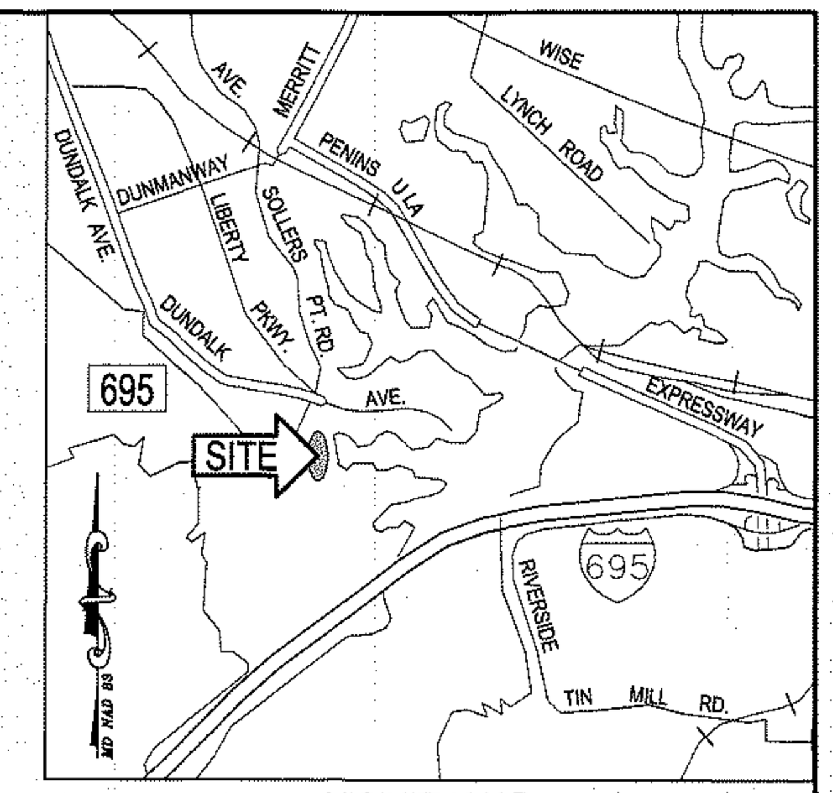
SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2874	22005 PO0
	JOB ORDER NUMBER: 242-212-307-0472
	SHEET 6 OF 15
	DRAWING NUMBER: C301
	FILE NO.:

BALTIMORE COUNTY MARYLAND

P:\2020\20024101\Drawings\07-Site\2020024101-C301-Grading Plan.dwg
Sep 07, 2021 - 8:56am User: khaley



VICINITY MAP
SCALE: 1" = 1000'

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
I-100	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 2.919	N 574565.70	E 1451449.35	5.42
I-101	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.365 INV OUT 2.165	N 574515.38	E 1451479.04	5.36
I-102	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.698 INV OUT 1.498	N 574472.36	E 1451492.26	5.36

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
I-200	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 2.813	N 574155.54	E 1451576.45	5.38
I-201	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.264 INV OUT 2.064	N 574214.44	E 1451572.13	5.36
I-202	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.458 INV OUT 1.271	N 574257.43	E 1451558.82	5.36
I-203	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.130 INV OUT 1.930	N 574300.42	E 1451545.50	5.36
I-204	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.551 INV OUT 2.351	N 574343.40	E 1451532.19	5.36
I-205	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.985 INV OUT 2.785	N 574386.39	E 1451518.88	5.36
I-206	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 3.214	N 574429.37	E 1451505.57	5.36

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
I-300	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 2.227	N 574109.16	E 1451551.38	5.54
I-301	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.803 INV OUT 1.603	N 574081.50	E 1451507.28	5.36
I-302	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.502 INV OUT 2.302	N 574079.56	E 1451454.53	5.54
I-303	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 3.264 INV OUT 3.064	N 574104.18	E 1451408.25	5.36
I-304	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 3.530	N 574154.53	E 1451378.64	5.36

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
I-400	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.636 INV OUT 1.436	N 574197.48	E 1451365.34	5.36
I-401	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.295 INV OUT 2.095	N 574240.50	E 1451352.02	5.36
I-402	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.949 INV OUT 2.749	N 574283.49	E 1451338.71	5.36
I-403	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 3.174	N 574326.45	E 1451325.38	5.36

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
I-500	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 1.878	N 574369.46	E 1451312.09	5.36
I-501	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.600 INV OUT 1.600	N 574412.45	E 1451298.78	5.36
I-502	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 1.790 INV OUT 1.790	N 574455.44	E 1451285.47	5.36
I-503	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.100 INV OUT 2.080	N 574514.43	E 1451281.60	5.42
I-504	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.410 INV OUT 2.400	N 574560.72	E 1451306.22	5.50
I-505	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV IN 2.850 INV OUT 2.830	N 574588.38	E 1451350.32	5.36
I-506	NEW 15" NYLOPLAST DRAIN BASIN INLET WITH 15" STANDARD GRATE ASSEMBLY	INV OUT 3.200	N 574590.31	E 1451403.07	5.50

STANDARD NOTES:

1. THE CONTRACTOR SHALL MAINTAIN, REPAIR, AND/OR REPLACE ANY EXISTING SEDIMENT CONTROL DEVICES ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION UNDER THIS CONTRACT, AND AS SHOWN ON THE APPROVED SEDIMENT CONTROL PLAN AS PART OF THE CONTRACT DOCUMENTS. AT THE END OF EACH DAY, ALL SUCH DISTURBED DEVICES SHALL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE. THE COST OF PERFORMING THE WORK, INCLUDING MATERIALS, SHALL BE PAID FOR BY A LUMP SUM BID FOR MAINTENANCE AND REPAIR OF SEDIMENT CONTROL DEVICES.
2. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PERMIT NUMBER _____ - COUNTY - _____.
3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH BALTIMORE COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (FEBRUARY 2000, AS AMENDED).
4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
5. THE CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION AND/OR INSTALLATION OF ALL WORK SHOWN ON THESE PLANS. ALL UTILITIES SHALL BE FULLY PROTECTED FROM DAMAGE OR INTERRUPTION.
6. "A FOREST CONSERVATION SPECIAL VARIANCE WAS APPROVED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY TO ALLOW THE REMOVAL OF FIVE SPECIMEN TREES. MITIGATION WAS ACCOMPLISHED THROUGH THE PAYMENT OF A FEE-IN-LIEU."

GRADING NOTES:

1. THE PROPOSED GRADING ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND COMPLIES WITH ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE. HOWEVER, DUE TO BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.
2. ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER TO CONVEY RUNOFF ACCORDING TO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.
3. THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN FOREST BUFFER EASEMENT OR OTHER FOREST RETENTION AREAS EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.
4. STORMWATER MANAGEMENT HAS BEEN ADDRESSED BY A STORMWATER MANAGEMENT VARIANCE.
5. TOTAL AREA DISTURBED IS 3.88 AC / +/-169110 SF.

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX
CONTRACTOR: ______
DATE COMPLETED: ______
INSPECTOR: ______
PIPE MATERIAL (Pressure Only) ______
DWG. FILENAME:

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.
1"=30'-0" 30 0 15 30 60

G M Sam FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

SEAL	PROFESSIONAL CERTIFICATION	AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	DEPARTMENT OF PUBLIC WORKS
BLAINE WADE LINKOUS, STATE OF MARYLAND, No. 34682, PROFESSIONAL ENGINEER	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 34682, EXPIRATION DATE 07/08/23	CONTRACT COMPLETION BOX			R.O.W NO.	MNE	37 NE 32 38 NE 32	PLAN SCALE: 1" = 30' PROFILE SCALE:	APPROVED BY: ______ DIRECTOR DATE: ______
DATE 9/7/21	ENGINEER: BLAINE LINKOUS BLINKOUS@WBCM.COM WBCM Designing Infrastructure for Tomorrow	DGN BY: K.H. DWN BY: H.H. CHKD BY: B.L.	BUREAU OF ENGINEERING AND CONSTRUCTION / TRAFFIC / HIGHWAYS / STRUCTURES / STORM DRAINS / SEWER / WATER / FIELD ENGINEER REVIEWED BY: DATE REVIEWED:						BUR. OF ENGINEERING & CONSTRUCTION APPROVED BY: ______ CHIEF DATE: ______

Sep 07, 2021 - 8:56am User: khaley
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BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

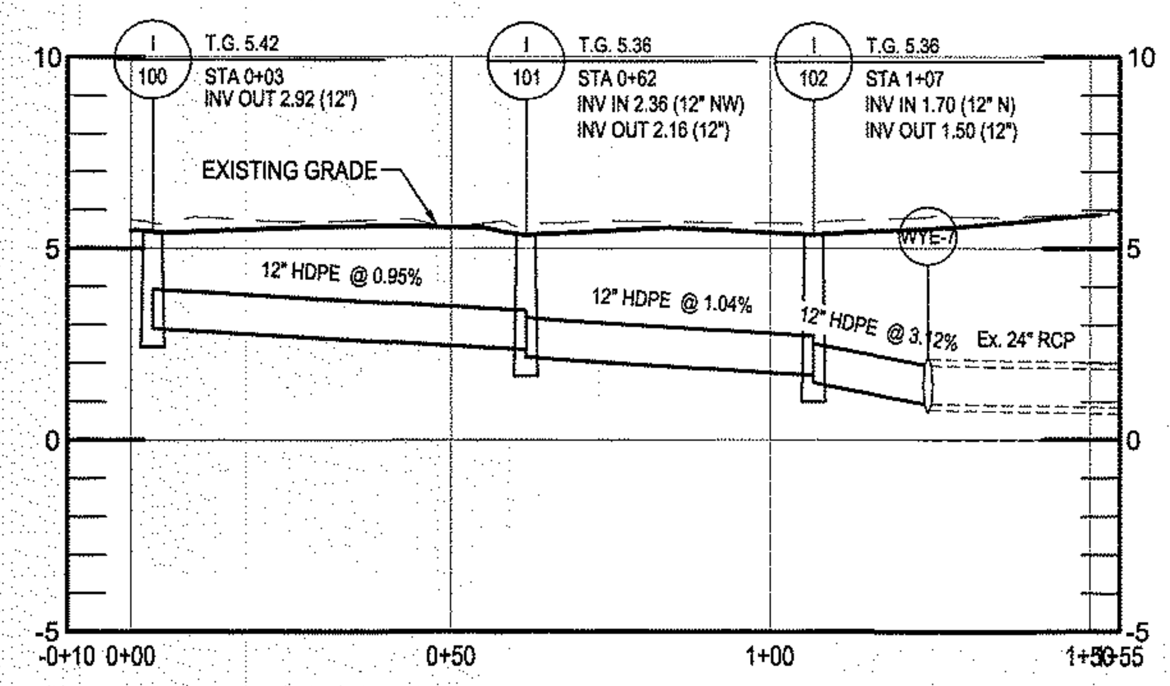
FIELD, TRACK, AND DRAINAGE REPLACEMENT
GRADING PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

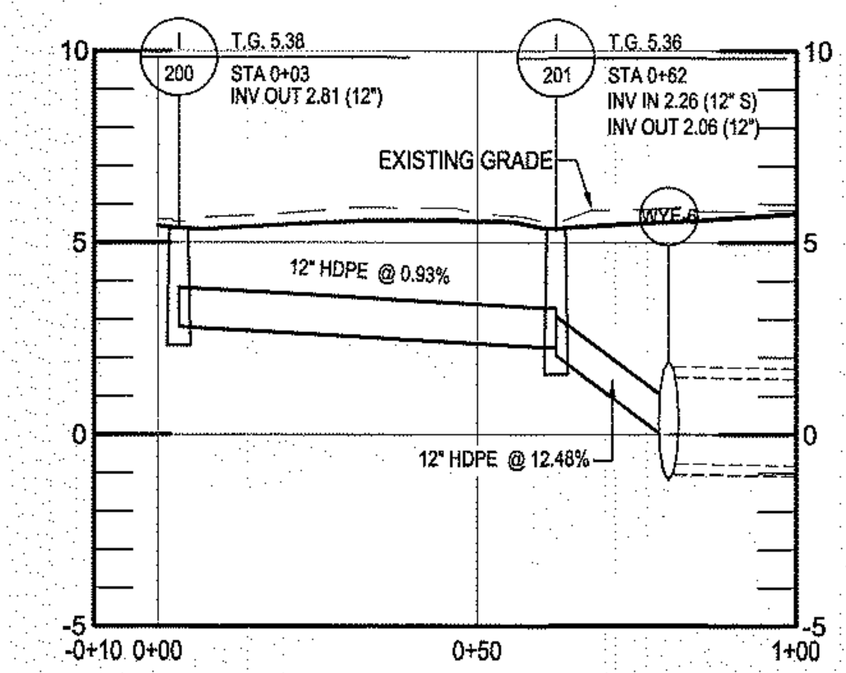
SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

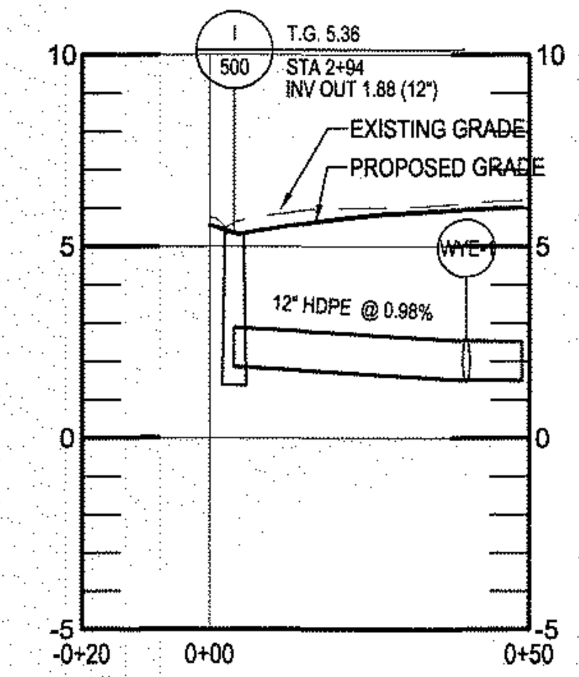
SHEET DESIGNATION	CONTRACT NUMBER
2021-2875	22005 PO0
BALTIMORE COUNTY MARYLAND	JOB ORDER NUMBER: 242-212-307-0472
	SHEET 7 OF 15
	DRAWING NUMBER: C302
	FILE NO.:



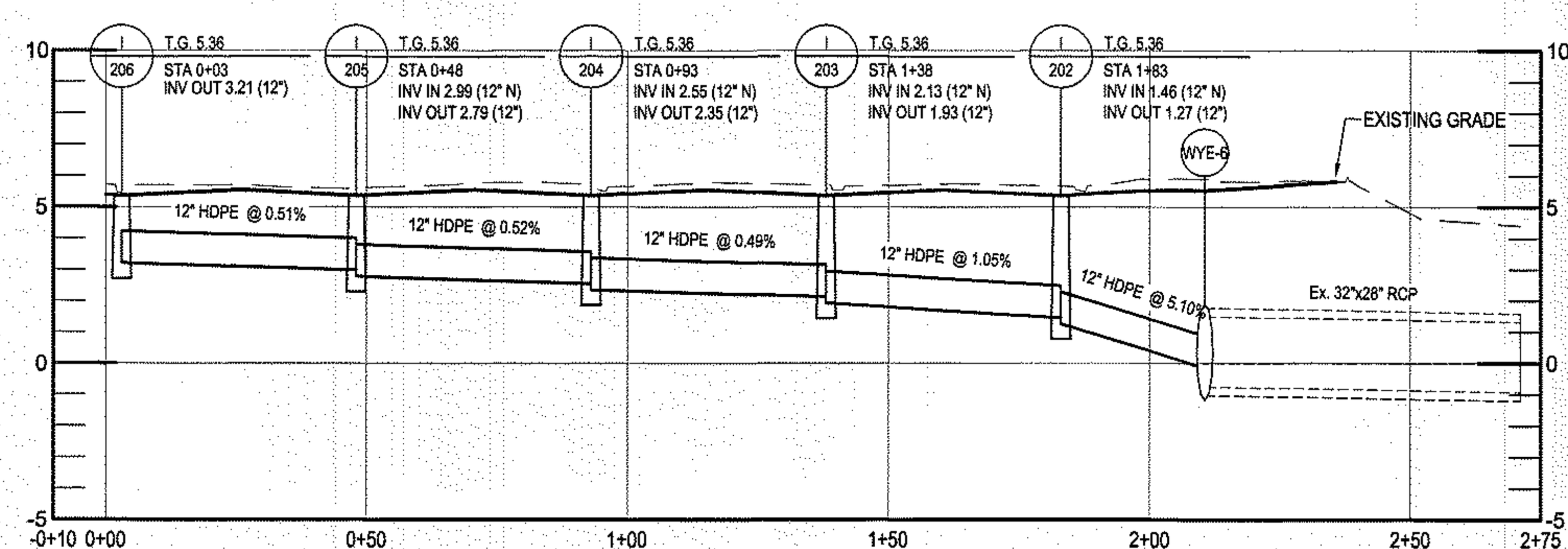
I-100 TO I-102
SCALE: HORIZ. 1"=30' VERT. 1"=5'



I-200 TO I-201
SCALE: HORIZ. 1"=30' VERT. 1"=5'



I-500 TO COUPLING
SCALE: HORIZ. 1"=30' VERT. 1"=5'



I-206 TO I-202
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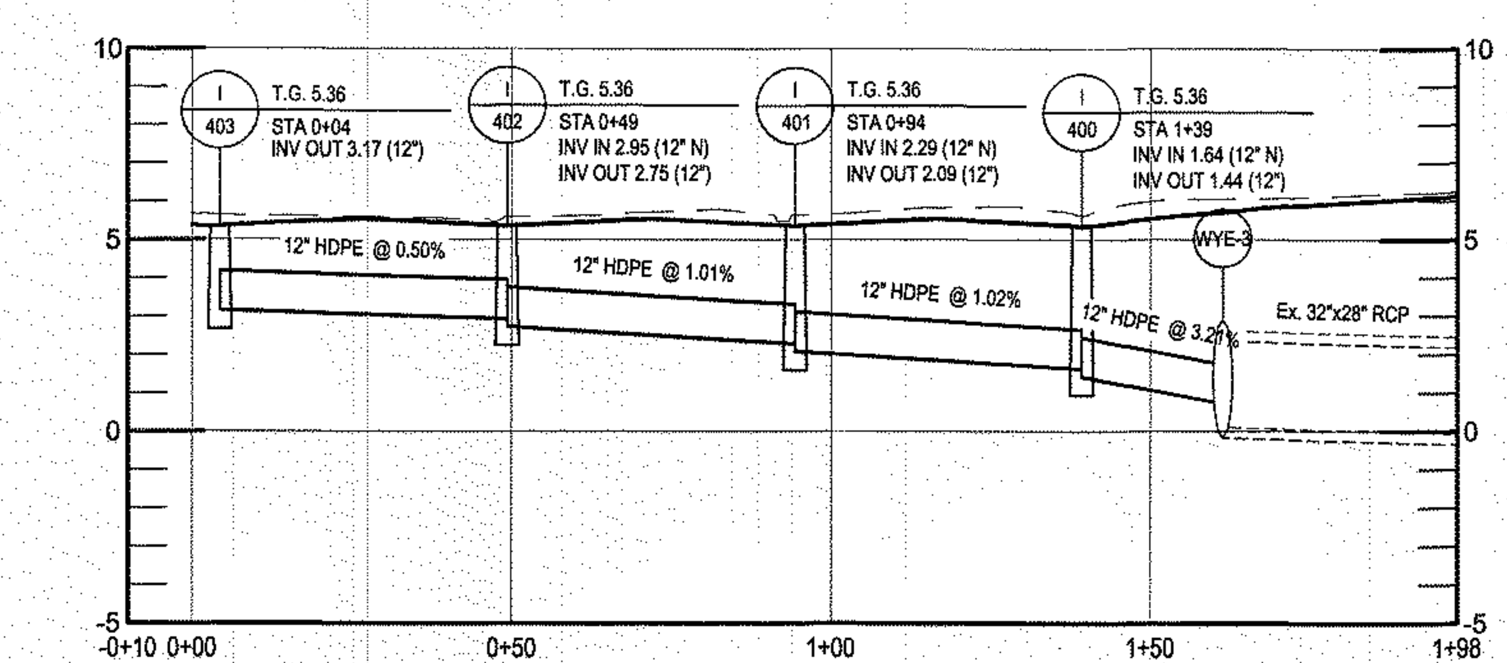
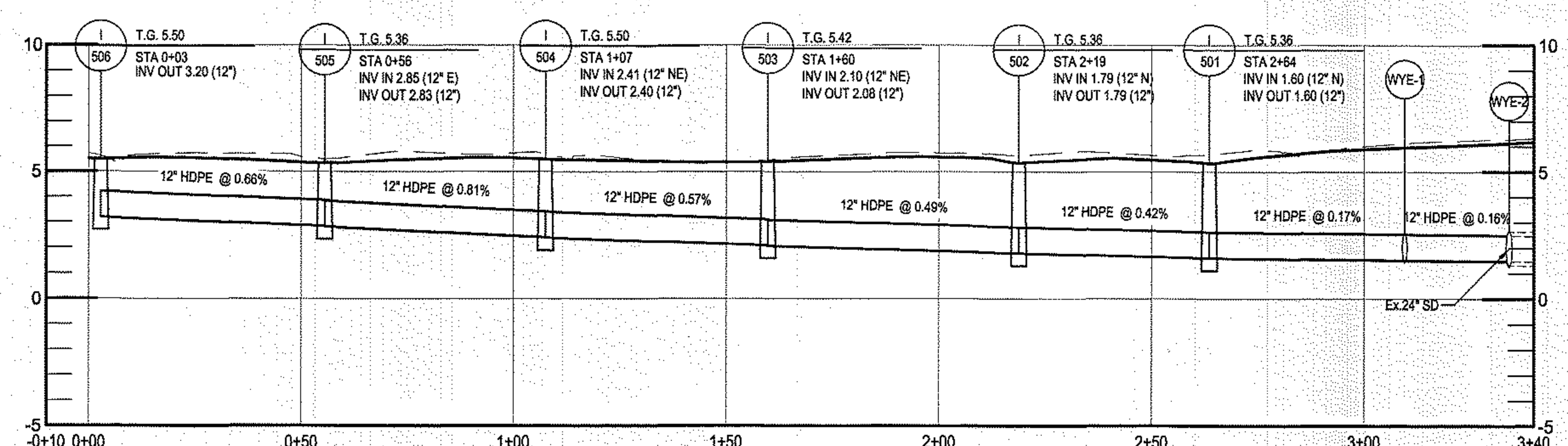
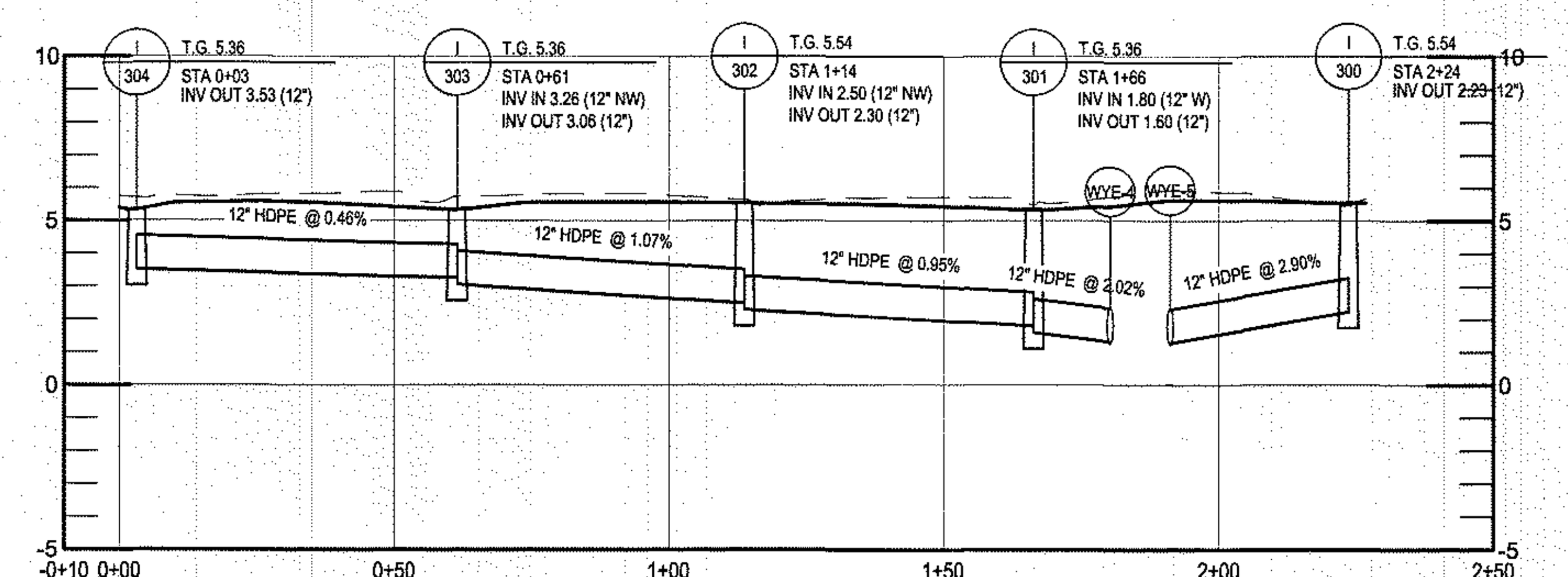


I-403 TO I-400
SCALE: HORIZ. 1"=30' VERT. 1"=5'



I-506 TOI-501
SCALE: HORIZ. 1"=30' VERT. 1"=5'



I-304 TO I-300
SCALE: HORIZ. 1"=30' VERT. 1"=5'

OWNER
PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

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CONTRACT COMPLETION BOX
CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)

DWG. FILENAME:

FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

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1"=5'-0"

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.
1"=30'-0"

SHEET DESIGNATION	CONTRACT NUMBER
2021-2876	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 8 OF 15
	DRAWING NUMBER
	C401
	FILE NO.:

SEAL

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682 EXPIRATION DATE 07/08/23
ENGINEER: BLAINE LINKOUS
WBCM
Designing Infrastructure for Tomorrow

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
			R.O.W NO.	MNE	37 NE 32 36 NE 32	PLAN SCALE:	1" = 30'
CONTRACT COMPLETION BOX						PROFILE SCALE:	
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: DIRECTOR
DATE:
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: CHIEF
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

UTILITIES PROFILE

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

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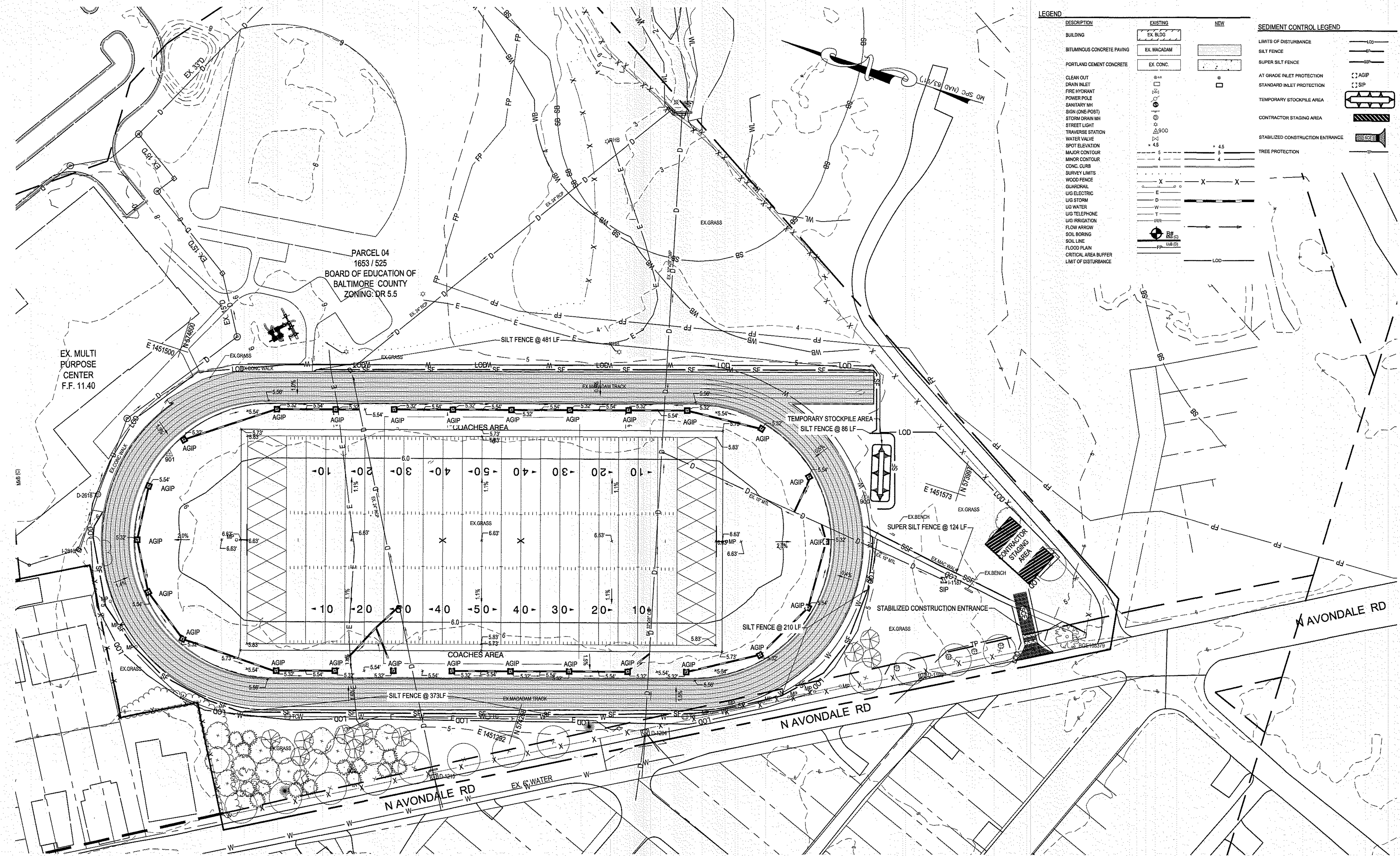

PLAN VIEW

SCALE: 1" = 40'

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
CLEAN OUT		
DRAIN INLET		
FIRE HYDRANT		
POWER POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION	900	
WATER VALVE		
SPOT ELEVATION	× 4.5	+ 4.5
MAJOR CONTOUR	5	5
MINOR CONTOUR	4	4
CONC. CURB		
SURVEY LIMITS		
WOOD FENCE	X	X X
GUARDRAIL		
U/G ELECTRIC	E	
U/G STORM	D	
UG WATER	W	
U/G TELEPHONE	T	
U/G IRRIGATION	IRR	
FLOW ARROW		
SOIL BORING	B# MkB (C)	
SOIL LINE	UzB (D)	
FLOOD PLAIN	FP	
CRITICAL AREA BUFFER		
LIMIT OF DISTURBANCE		LOD

SEDIMENT CONTROL LEGEND

LIMITS OF DISTURBANCE	LOD
SILT FENCE	SF
SUPER SILT FENCE	SSF
AT GRADE INLET PROTECTION	AGIP
STANDARD INLET PROTECTION	SIP
TEMPORARY STOCKPILE AREA	
CONTRACTOR STAGING AREA	
STABILIZED CONSTRUCTION ENTRANCE	SCE
TREE PROTECTION	TP

MAINTENANCE OF SEDIMENT CONTROL

CONTRACTOR SHALL WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

UTILITY NOTE

1) CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWN SLOPE OF) THE TRENCH.
2) PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
3) ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

CONSTRUCTION NOTES

STOCKPILE AREAS ON PAVEMENT PLACED OVER TARP SHALL NOT BE USED FOR PLACEMENT OR STORAGE OF ANY ERODIBLE MATERIALS.

TEMPORARY STOCKPILE NOTE:

TEMPORARY STOCKPILES SHALL BE:
1.) LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD)
2.) DRAIN TO A FUNCTIONING SEDIMENT CONTROL DEVICE.
3.) POSITIONED TO NOT IMPEDE, OR IMPAIR THE FUNCTION OF SAID DEVICE.
4.) POSITIONED TO NOT ALTER DRAINAGE DIVIDES.
THESE ITEMS SHOULD BE INCORPORATED INTO ANY NOTE REFERENCING TEMPORARY STOCKPILES, AND WHEN ACTUALLY DELINEATING THEM ON PLAN VIEWS.

INLET PROTECTION NOTE:

THE CONTRACTOR IS REQUIRED TO INSTALL INLET PROTECTION ON ALL STORM DRAIN INLETS WITH THE EXCEPTION OF THE FOLLOWING:
*1.) ANY INLET THAT OUTFALLS DIRECTLY INTO A SEDIMENT TRAPPING DEVICE.
2.) INLETS ON PRIVATE OR PUBLIC PAVED ROADWAYS OPEN TO THE PUBLIC. ALL INLET PROTECTION WILL BE INSTALLED AS DIRECTED BY THE INSPECTOR IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PAGE E.23 (OR AS MAY BE AMENDED). THE REMOVAL OF ANY INLET PROTECTION DEVICES WILL REQUIRE APPROVAL FROM THE INSPECTOR.
* STORM DRAINS TO BE FLUSHED PRIOR TO TRAPPING DEVICE REMOVAL

SEQUENCE OF OPERATIONS

1. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, (410) 887-3226 AT LEATS 48 HOURS PRIOR TO BEGINNING WORK.
2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE INSTALLED ALONG THE LIMIT OF DISTURBANCE, WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER/CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
3. CLEAR AND GRUB FOR SEDIMENT & EROSION CONTROL MEASURES AND DEVICES ONLY, INCLUDING SCE, SF, SSF, AND INLET PROTECTION.
4. INSTALL ALL SEDIMENT & EROSION CONTROL DEVICES.
5. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL , UPON COMPLETION OF SAID INSTALLATION.
6. WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE.
7. REMOVE AND REPLACE EXISTING STORM DRAIN SYSTEM PER THE UTILITY NOTE. INSTALL INLET PROTECTION AS INLETS ARE CONSTRUCTED.
8. GRADE FIELD TO NEW ELEVATIONS AND PERMANENTLY STABILIZE.
9. REMOVE AND REPLACE TRACK
10. COMPLETE LANDSCAPING. PERMANENTLY STABILIZE ANY REMAINING DISTURBED AREA.
11. UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
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1"=40'-0" — 40 0 20 40 80

CONTRACT COMPLETION BOX
CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)

DWG. FILENAME:

W.B.C.M. SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	574,064.44	1,451,549.92	5.15	REBAR & CAP
901	574,583.72	1,451,420.83	5.79	REBAR & CAP
902	574,378.35	1,451,234.22	4.79	REBAR & CAP

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
[signature] 9-9-21
Date

[signature] FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER — TITLE — DATE

SEAL: STATE OF MARYLAND — BLAINE WADE LINKOUS — No. 34682 — PROFESSIONAL ENGINEER — DATE: 9/7/21

PROFESSIONAL CERTIFICATION		
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 34682, EXPIRATION DATE 07/08/23		
ENGINEER: BLAINE LINKOUS, BLINKOUS@WBCM.COM — WBCM, Designing Infrastructure for Tomorrow	DGN BY: K.H.	
	DWN BY: H.H.	
	CHKD BY: B.L.	

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE		DEPARTMENT OF PUBLIC WORKS
			R.O.W NO.	MNE	37 NE 32 / 36 NE 32	PLAN SCALE:	1" = 40'	APPROVED BY: DIRECTOR
CONTRACT COMPLETION BOX						PROFILE SCALE:		DATE:
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
REVIEWED BY:								APPROVED BY: CHIEF
DATE REVIEWED:								DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

EROSION AND SEDIMENT CONTROL PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2877	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 9 OF 15
	DRAWING NUMBER
	C501
	FILE NO.: REV. 01/17

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B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

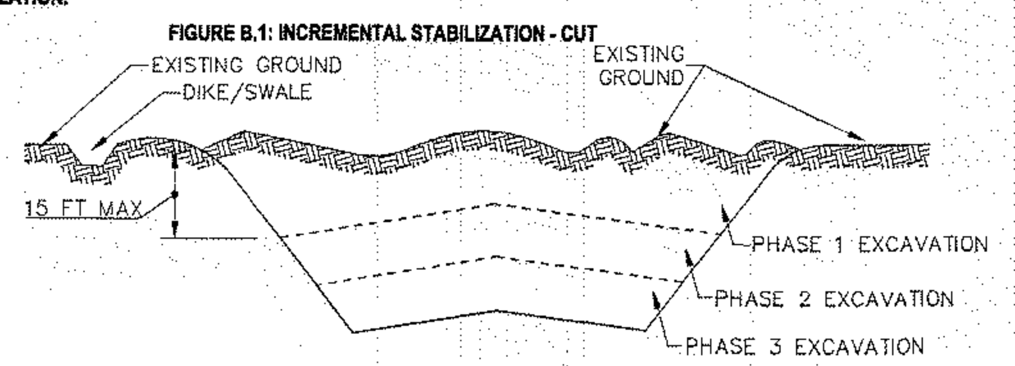
DEFINITION
USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.
PURPOSE
TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.
CONDITIONS WHERE PRACTICE APPLIES
ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.
EFFECTS ON WATER QUALITY AND QUANTITY
STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS.
PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPIRATION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH.
VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE.
SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.
ADEQUATE VEGETATIVE ESTABLISHMENT
INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.
1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95 PERCENT GROUNDCOVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 94 PERCENT GROUNDCOVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION
ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.
PURPOSE
TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.
CONDITIONS WHERE PRACTICE APPLIES
ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.
CRITERIA
A. INCREMENTAL STABILIZATION - CUT SLOPES
1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1):
a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

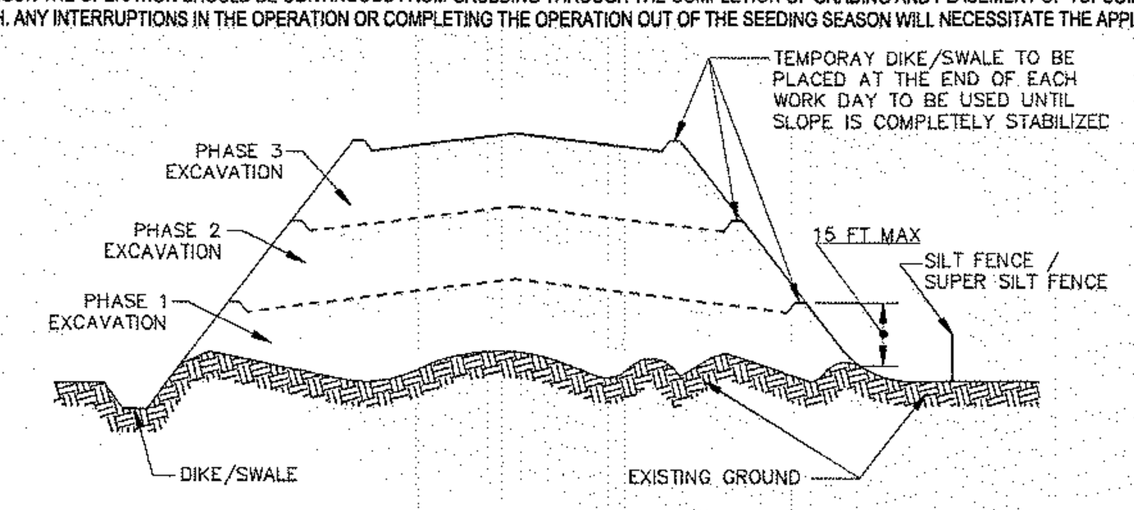
NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

FIGURE B.1: INCREMENTAL STABILIZATION - CUT



B. INCREMENTAL STABILIZATION - FILL SLOPES
1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.



B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
I. SOIL PH BETWEEN 6.0 AND 7.0.
II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING
1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.
b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

6. TOPSOIL APPLICATION
a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE(200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

B-4-3 SEEDING AND MULCHING

A. SEEDING
1. SPECIFICATIONS
a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE_TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.
b. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
c. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
d. SOD OR SEED MUST BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
2. APPLICATION
a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
i. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
b. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
i. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
c. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
ii. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

B. MULCHING
1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. **NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.**
b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
i. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
ii. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
iii. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
iv. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
v. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.
2. APPLICATION:
a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
c. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
3. ANCHORING:
a. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:
i. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR IF POSSIBLE.
ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
iii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY **PROHIBITED.**
iv. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

B-4-4 TEMPORARY STABILIZATION

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA
1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.b AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

Seed Mixture (Hardiness Zone 7a)				Fertilizer Rate 10-20-20	Lime Rate
Species	Application Rate	Seeding Dates	Depths		
ANNUAL RYEGRASS	40 lb/ac	2/15 - 4/30 8/15 - 11/30	1/2"	436 lb/ac (10 lb/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
FOXTAIL MILLET	30 lb/ac	5/1 - 8/14	1/2"		

NOTE TO CONTRACTOR: SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

B-4-5 PERMANENT STABILIZATION

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

A. SEED MIXTURES
1. GENERAL USE
a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2 ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 -CRITICAL AREA PLANTING.
c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY .
2. TURFGRASS MIXTURES
a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1½ TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:
TURFGRASS VARIETIES SHOULD BE SELECTED FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND"

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE

c. IDEAL TIMES OF SEEDING
WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)
CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)
SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
d. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1½ INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
e. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (½ TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

Seed Mixture (Hardiness Zone 7a)					Fertilizer Rate (10-20-20)			Lime Rate
Mix No.	Species	Application Rate	*Seeding Dates	Seeding Depths	N	P205	K20	
6	TALL FESCUE PERENNIAL RYE GRASS WHITE CLOVER	40 lb/ac. 25 lb/ac. 5 lb/ac.						
7	CREEPING RED FESCUE KENTUCKY BLUEGRASS	60 lb/ac. 15 lb/ac.	2/15 - 4/30 8/15 - 10/31	1/4"-1/2"	45 lb/ac. (1 lb/ 1000 sf)	90 lb/ac. (2.0 lb/ 1000 sf)	90 lb/ac. (2.0 lb/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
11	CREEPING RED FESCUE CHEWINGS FESCUE KENTUCKY BLUEGRASS ROUGH BLUEGRASS	30 lb/ac. 30 lb/ac. 20 lb/ac. 15 lb/ac.						

* FOR THE PERIOD 5/1 - 8/14 ADD FOXTAIL, OR PEARL MILLET TO THE PERMANENT SEED MIX. DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX.

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
1. GENERAL SPECIFICATIONS
a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
2. SOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
3. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN ⅓ OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN GRASS HEIGHT AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

Page 19

SEDIMENT AND EROSION CONTROL PLAN NOTES

GENERAL NOTES (FOR EROSION AND SEDIMENT CONTROL PLANS ONLY)

1) Refer to *"2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control"* for standard details and detailed specifications of each practice specified herein.

2) With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment control inspector and the Baltimore County Soil Conservation District.

3) At the end of each working day, all sediment control practices will be inspected and left in operational condition.

4) Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within: a.) Three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than three horizontal to one vertical (3:1), and b.) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

5) Any change to the grading proposed on this plan requires re-submission to Baltimore County Soil Conservation District for approval.

6) Dust control will be provided for all disturbed areas. Refer to *"2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control"*, pg. H.22, for acceptable methods and specifications for dust control.

7) Any variations from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the Baltimore County Soil Conservation District prior to the initiation of the change.

8) Excess cut or borrow material shall go to, or come from, respectively, a site with an open grading permit and approved sediment control plan.

9) The following item may be used as applicable: Refer to *"Maryland's Guidelines to Waterway Construction"* by the Water Management Administration of the Maryland Department of the Environment, revised November 2000, for standard details and detailed specifications of each practice specified herein for waterway construction.

10) PUMPING SEDIMENT-LADEN WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED. Any portable dewatering device must be located within the limit of disturbance.

SITE INFORMATION TOTAL:
TOTAL AREA OF SITE....12.92 ACRES
TOTAL LIMITS OF DISTURBANCE....3.80 ACRES / 165,596 SF
TOTAL CUT/FILL....2,243 CUBIC YARDS*

THE CUT/FILL CALCULATIONS SHOWN ARE FOR SEDIMENT CONTROL PURPOSES ONLY THE CONTRACTOR SHALL DEVELOP HIS/HER OWN QUANTITIES FOR BIDDING PURPOSES.

OWNER
PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
MICHAEL GOODYEAR
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER | TITLE | DATE

OWNER
PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

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ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX
CONTRACTOR: ______
DATE COMPLETED: ______
INSPECTOR: ______
PIPE MATERIAL (Pressure Only) ______

DWG. FILENAME:

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
9-9-21
Date

SEAL
BLAINE WADE LINKOUS
No. 34682
PROFESSIONAL ENGINEER
DATE:

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM
Designing Infrastructure for Tomorrow®

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE		DEPARTMENT OF PUBLIC WORKS
			R.O.W NO.	MNE	37 NE 32 38 NE 32	PLAN SCALE:		APPROVED BY: ______ DIRECTOR
CONTRACT COMPLETION BOX						PROFILE SCALE:		DATE:
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
REVIEWED BY:								APPROVED BY: ______ CHIEF
DATE REVIEWED:								DATE:

SUBDIVISION: SOLLERS POINT

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT
FIELD, TRACK, AND DRAINAGE REPLACEMENT
EROSION AND SEDIMENT CONTROL NOTES
SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
COUNCILMAN DIST. NO.:02
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2878	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 10 OF 15
	DRAWING NUMBER
	C502
	FILE NO.:

BALTIMORE COUNTY MARYLAND

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Sep 07, 2021 - 8:57am User: kbailey

H-1 STANDARDS AND SPECIFICATIONS FOR MATERIALS

TABLE H.1: GEOTEXTILE FABRICS

		WOVEN SILT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MINIMUM AVERAGE ROLL VALUE[1]					
PROPERTY	TEST METHOD	MD	CD	MD	CD	MD	CD
GRAB TENSILE STRENGTH	ASTM D-4632	200 LB	200 LB	370 LB	250 LB	200 LB	200 LB
GRAB TENSILE ELONGATION	ASTM D-4632	15%	10%	15%	15%	50%	50%
TRAPEZOIDAL TEAR STRENGTH	ASTM D-4533	75 LB	75 LB	100 LB	60 LB	80 LB	80 LB
PUNCTURE STRENGTH	ASTM D-6241	450 LB		900 LB		450 LB	
APPARENT OPENING SIZE[2]	ASTM D-4751	U.S. SIEVE 30 (0.59 MM)		U.S. SIEVE 70 (0.21 MM)		U.S. SIEVE 70 (0.21 MM)	
PERMITTIVITY	ASTM D-4491	0.05 SEC^{-1}		0.28 SEC^{-1}		1.1 SEC^{-1}	
ULTRAVIOLET RESISTANCE RETAINED AT 500 HOURS	ASTM D-4355	70% STRENGTH		70% STRENGTH		70% STRENGTH	

[1] ALL NUMERIC VALUES EXCEPT APPARENT SIZE (AOS) REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV). MARV IS CALCULATED AS THE TYPICAL MINUS TWO STANDARD DEVIATIONS. MD IS MACHINE DIRECTION; CD IS CROSS DIRECTION.

[2] VALUES FOR AOS REPRESENT THE AVERAGE MAXIMUM OPENING.

GEOTEXTILES MUST BE EVALUATED BY THE NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP) AND CONFORM TO THE VALUES IN TABLE H.1.

THE GEOTEXTILE MUST BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS AND MUST BE ROT AND MILDEW RESISTANT. THE GEOTEXTILE MUST BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS AND COMPOSED OF A MINIMUM OF 95 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS, AND FORMED INTO A STABLE NETWORK SO THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES.

WHEN MORE THAN ONE SECTION OF GEOTEXTILE IS NECESSARY, OVERLAP THE SECTIONS BY AT LEAST ONE FOOT. THE GEOTEXTILE MUST BE PULLED TAUT OVER THE APPLIED SURFACE. EQUIPMENT MUST NOT RUN OVER EXPOSED FABRIC. WHEN PLACING RIPRAP ON GEOTEXTILE, DO NOT EXCEED A ONE FOOT DROP HEIGHT.

OWNER'S/DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS CONSTRUCTION WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE ALSO CERTIFY THAT THE SITE WILL BE INSPECTED AT THE END OF EACH WORKING DAY, AND THAT ANY NEEDED MAINTENANCE WILL BE COMPLETED SO AS TO INSURE THAT ALL SEDIMENT CONTROL PRACTICES ARE LEFT IN OPERATIONAL CONDITION. I/WE AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.

[signature] 8/31/2021

SIGNATURE OWNER/DEVELOPER — DATE

GREGORY M. DORAN — FACILITIES CHIEF

PRINTED NAME — TITLE

CONSULTANTS CERTIFICATION:

"I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT AND THE CURRENT STATE OF MARYLAND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER."

[signature] August 31, 2021

SIGNATURE — DATE

BLAINE W. LINKOUS — 34682

PRINT NAME — MD LICENSE NO.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

a.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

b.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
MICHAEL GOODYEAR
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

[signature] FACILITIES CHIEF 8/31/2021

SIGNATURE OF OWNER/DEVELOPER — TITLE — DATE

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
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CONTRACT COMPLETION BOX

CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)

DWG. FILENAME:

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
[signature] 9-9-21
Date

SEAL: STATE OF MARYLAND — BLAINE WADE LINKOUS — No. 34682 — PROFESSIONAL ENGINEER — DATE 9/2/21

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM — Designing Infrastructure for Tomorrow

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
			R.O.W NO.	MNE	37 NE 32 38 NE 32	PLAN SCALE:	
CONTRACT COMPLETION BOX						PROFILE SCALE:	

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: DIRECTOR
DATE:
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: CHIEF
DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

EROSION AND SEDIMENT CONTROL NOTES

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
COUNCILMAN DIST. NO.:02
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

SHEET DESIGNATION: 2021-2879
CONTRACT NUMBER: 22005 PO0
JOB ORDER NUMBER: 242-212-307-0472

DRAWING NUMBER: C503
FILE NO.:
REV. 01/17

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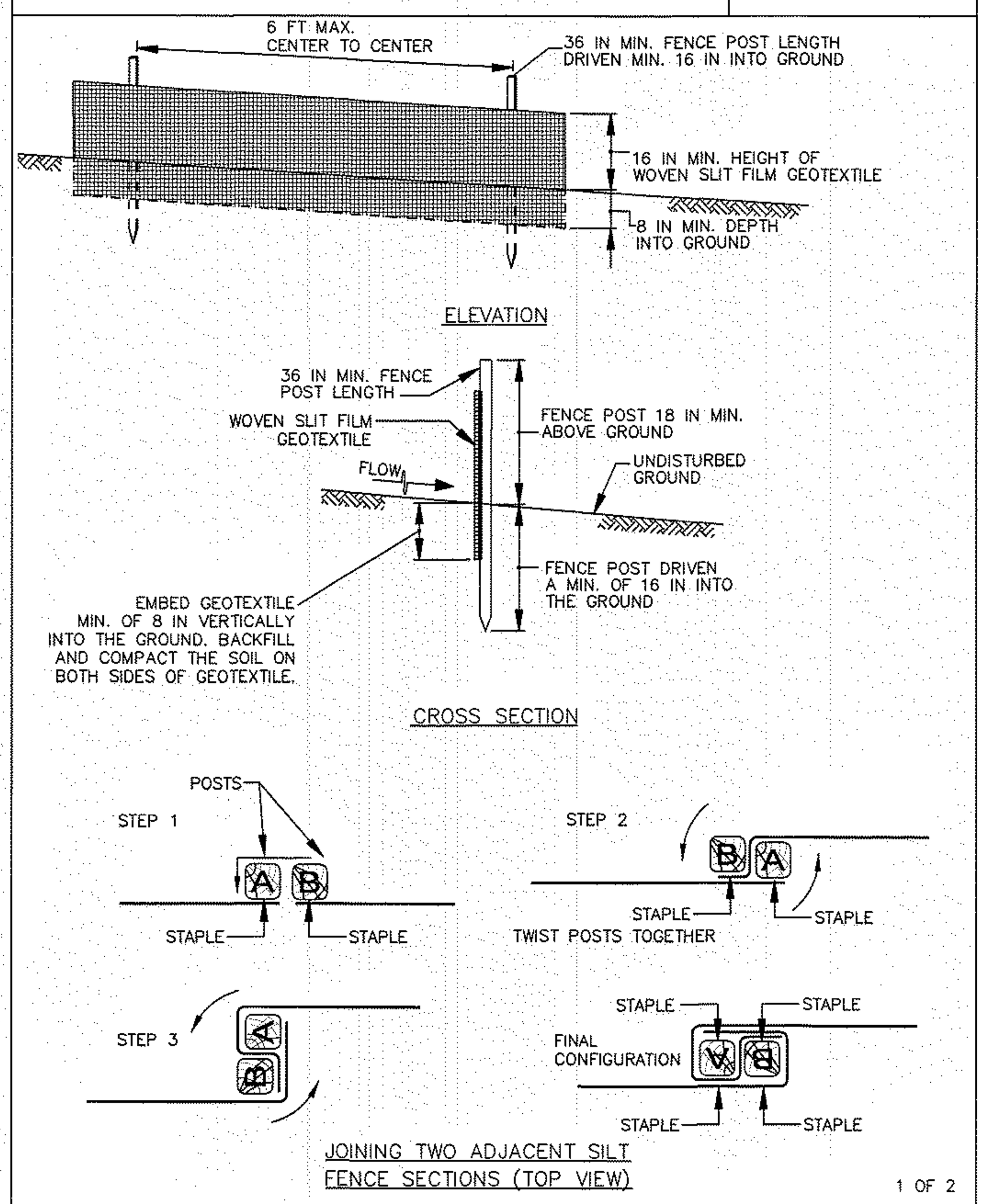
DETAIL E-1 SILT FENCE

STANDARD SYMBOL
|—— SF ——|



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL
|—— SF ——|

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

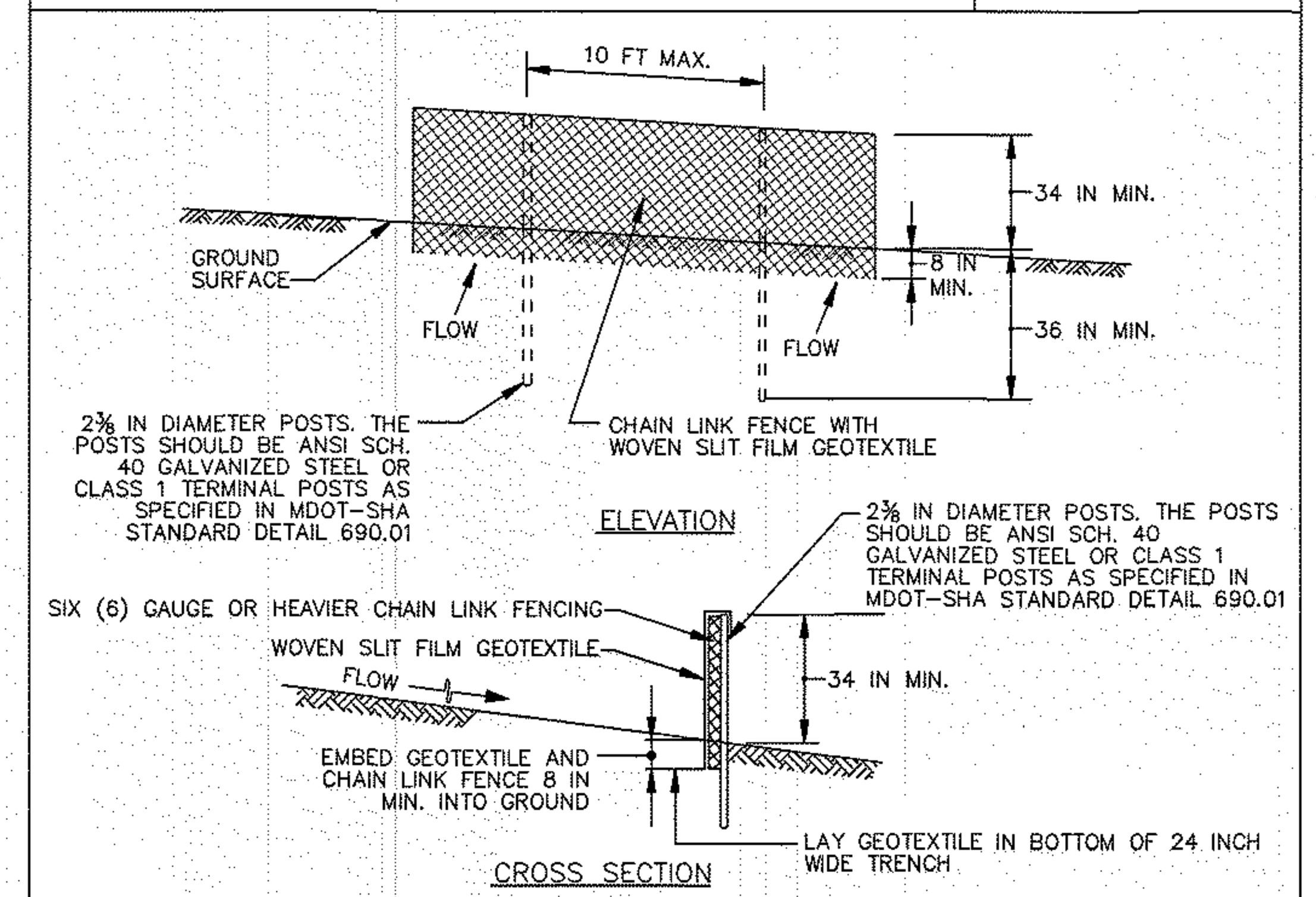
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL
|—— SSF ——|



CONSTRUCTION SPECIFICATIONS

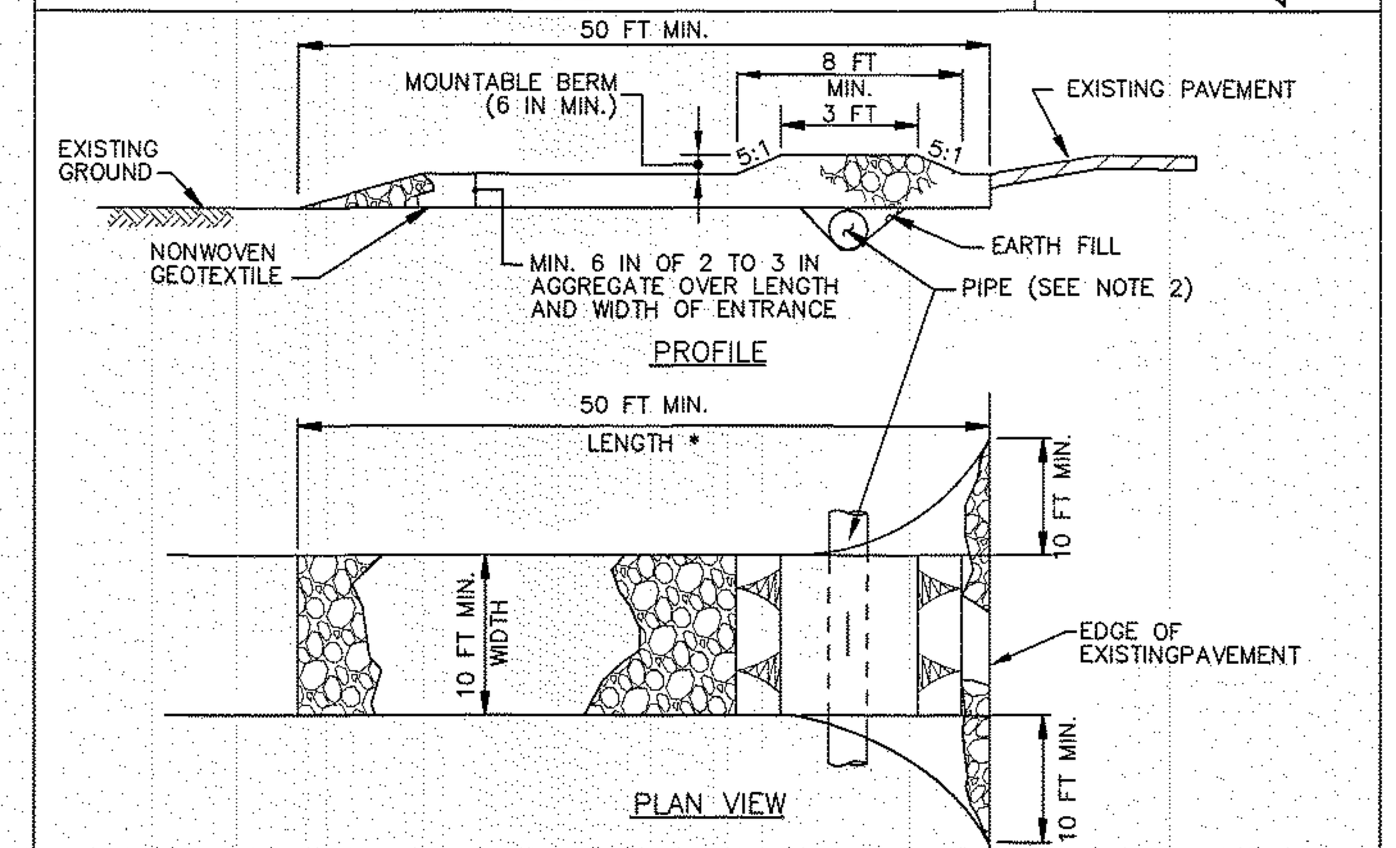
1. INSTALL 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 6 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. LAY THE GEOTEXTILE IN THE BOTTOM OF THE 24 INCH WIDE TRENCH.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE UPHILL A MINIMUM OF 3 VERTICAL FEET TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
7. **REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.**

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED - **2012**	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL
SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
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SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONTRACT COMPLETION BOX

CONTRACTOR: ______
DATE COMPLETED: ______
INSPECTOR: ______
PIPE MATERIAL (Pressure Only) ______

DWG. FILENAME:

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
9-9-21
Date

NOTE TO CONTRACTOR: SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

SEAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/23.

ENGINEER: BLAINE LINKOUS
BLINKOUS@WBCM.COM
WBCM
Designing Infrastructure for Tomorrow

DATE 9/7/21

DGN BY: K.H.
DWN BY: H.H.
CHKD BY: B.L.

AS–BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
						PLAN SCALE:	
			R.O.W NO.	MNE	37 NE 32 38 NE 32		
CONTRACT COMPLETION BOX						PROFILE SCALE:	

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: ______ DIRECTOR
DATE: ______
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ______ CHIEF
DATE: ______

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT

FIELD, TRACK, AND DRAINAGE REPLACEMENT

EROSION AND SEDIMENT CONTROL DETAILS

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2880	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 12 OF 15
	DRAWING NUMBER
	C504
	FILE NO.:

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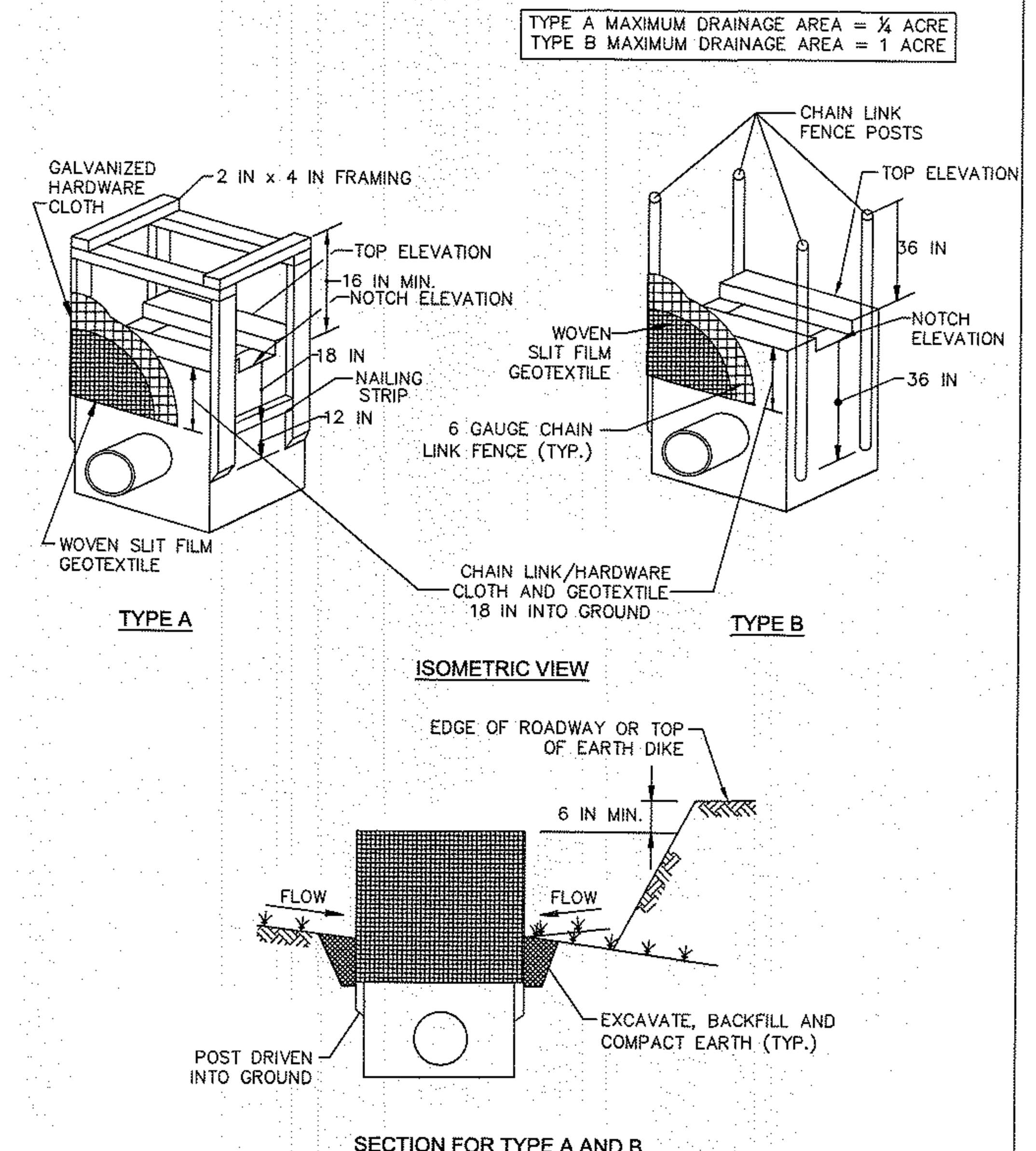
DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL
SIP

TYPE A MAXIMUM DRAINAGE AREA = ¼ ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED - 2012	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL
SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN GEOTEXTILE (AS INDICATED ON THE STANDARD INLET PROTECTION DETAIL) AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ¼ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

   FOR TYPE B, USE 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 6 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

2 OF 2

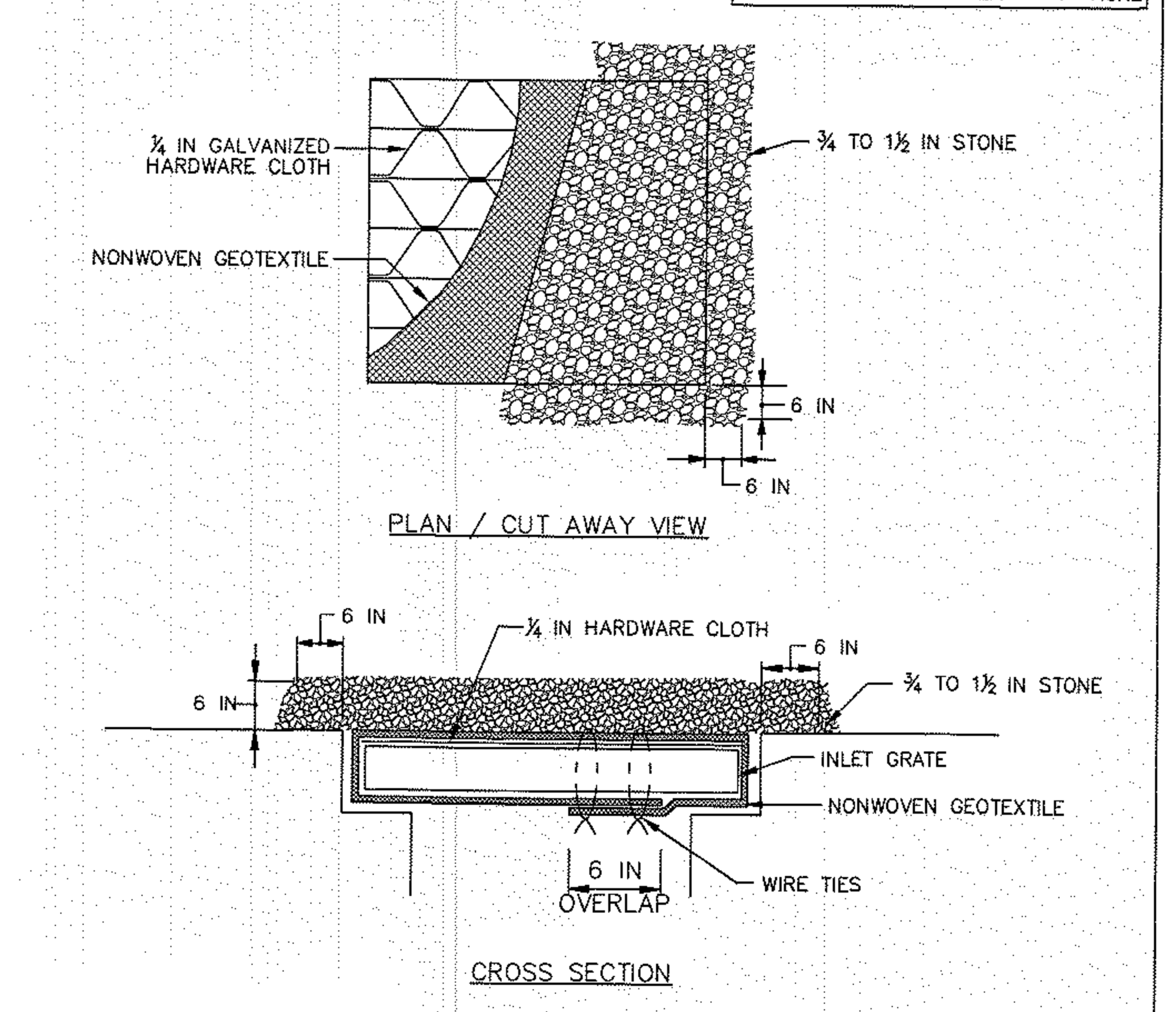
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED - 2012	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL
AGIP

MAXIMUM DRAINAGE AREA = 1 ACRE

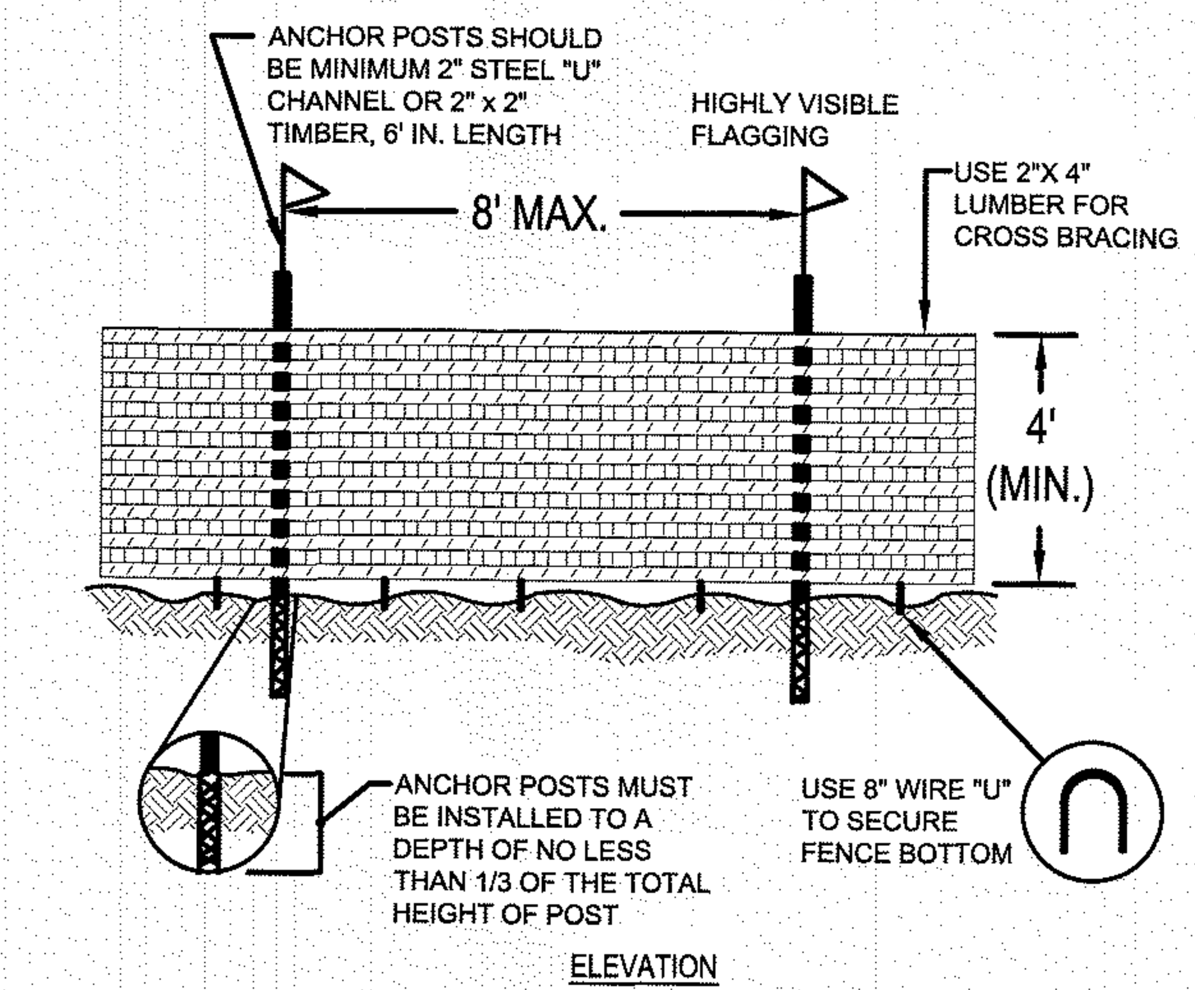


CONSTRUCTION SPECIFICATIONS

1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



ELEVATION

NOTES:
1. BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING PROTECTIVE DEVICE.
4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS BY PLACING OUTSIDE CRITICAL ROOT ZONE.
5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION.
6. PROTECTIVE SIGNAGE MUST ALSO BE USED. SEE SIGNAGE DETAIL(S).
7. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.
8. SILT FENCE OR SUPER SILT FENCE MAY BE SUBSTITUTED FOR THE PLASTIC MESH FENCE WHERE TREE PROTECTION AREAS COINCIDE WITH THE LOCATION OF THE SEDIMENT CONTROLS. REFER TO THE SEDIMENT AND EROSIONS CONTROL PLAN.

TREE PROTECTION FENCE

NOT TO SCALE

OWNER

PROPERTY MANAGEMENT, CAPITAL SERVICES
12200 LONG GREEN PIKE
GLEN ARM, MD 21057
BRIAN McKINLEY
410-887-2915
SITE ADDRESS:
323 SOLLERS POINT RD, DUNDALK, MD 21222

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
9-9-21
Date

CONTRACT COMPLETION BOX
CONTRACTOR:
DATE COMPLETED:
INSPECTOR:
PIPE MATERIAL (Pressure Only)

DWG. FILENAME:

FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

NOTE TO CONTRACTOR: SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

SEAL
DATE: 9/7/21

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
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DGN BY:	K.H.
DWN BY:	H.H.
CHKD BY:	B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE		DEPARTMENT OF PUBLIC WORKS
						PLAN SCALE:		APPROVED BY: DIRECTOR
			R.O.W NO.	MNE	37 NE 32 38 NE 32	PROFILE SCALE:		DATE:
CONTRACT COMPLETION BOX								
BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
REVIEWED BY:								APPROVED BY: CHIEF
DATE REVIEWED:								DATE:

BALTIMORE COUNTY OFFICE OF BUDGET AND FINANCE, PROPERTY MANAGEMENT
FIELD, TRACK, AND DRAINAGE REPLACEMENT
EROSION AND SEDIMENT CONTROL DETAILS
SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

BALTIMORE COUNTY MARYLAND

SHEET DESIGNATION	CONTRACT NUMBER
2021-2881	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 13 OF 15
	DRAWING NUMBER
	C505
	FILE NO.: REV. 01/17

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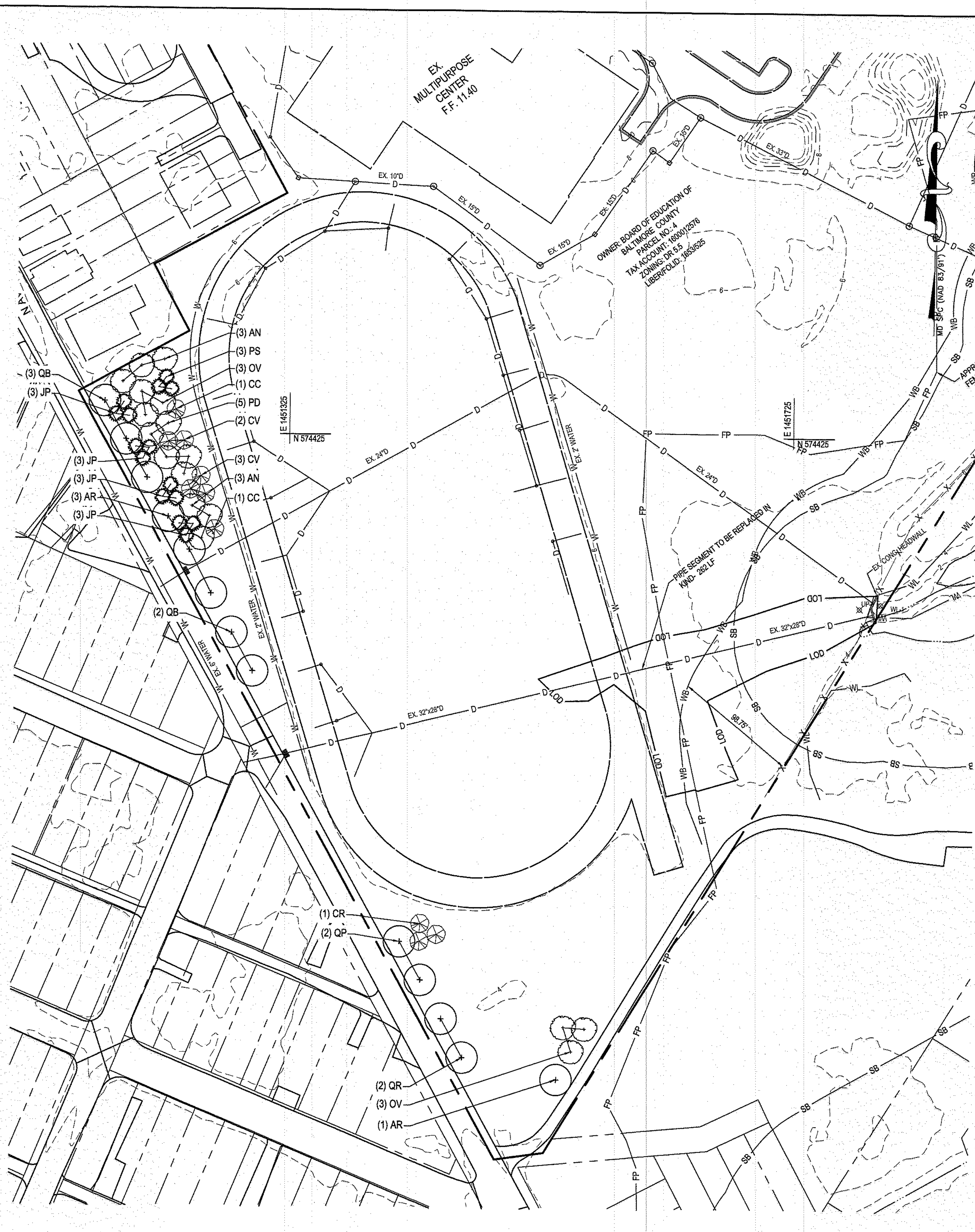
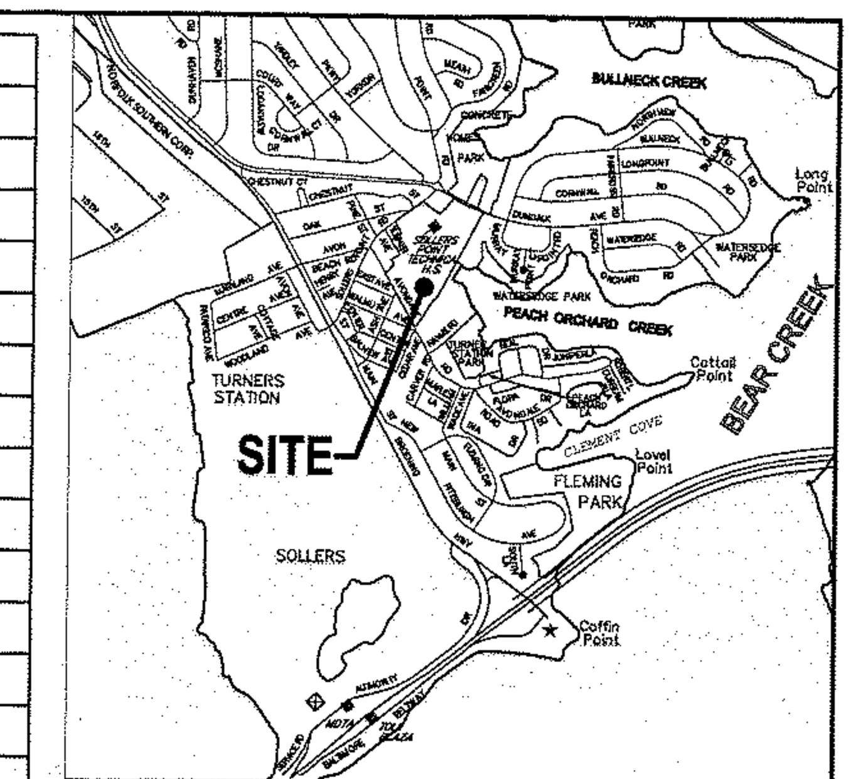


LEGEND

	EXISTING
BUILDING	EX. BLDG.
PAVING	EX. PAVING
CONCRETE WALK	EX. CONC.
PROPERTY LINE	
EASEMENT	
CURB	
FENCE	—X—
CONTOUR	—15— —14—
SPOT ELEVATION	x 14.85
STORM DRAIN	—D—
SANITARY	—SS—
WATER	—W—
ELECTRIC	—E—
GAS	—G—
STREAM BUFFER	—SB—
CENTER LINE	
COMMUNICATIONS	—T—
MANHOLE	D S E
INLET	
STREET LIGHT	LP
POWER POLE	PP
WATER VALVE	WV
GAS VALVE	GV
FIRE HYDRANT	
SOIL LINE	MdB (C) / UuB (D)
LIMIT OF DISTURBANCE	—LOD—
FLOODPLAIN	—FP—
WETLAND	—WL—
WETLAND BUFFER	—WB—

MASTER PLANT SCHEDULE

Key	Qty.	Botanical Name	Common Name	Size (Min.)	Root	Remarks
Street Deciduous Trees						
AR	4	Acer rubrum 'Somerset'	Somerset Red Maple	2.0" Cal.	B&B	As Shown
QB	5	Quercus bicolor	Swamp White Oak	2.0" Cal.	B&B	As Shown
QP	2	Quercus palustris	Pin Oak	2.0" Cal.	B&B	As Shown
QR	2	Quercus Rubra	Red Oak	2.0" Cal.	B&B	As Shown
	13	**Total**				
Buffer Deciduous Trees						
AN	6	Acer negundo	Box Elder	2.0" Cal.	B&B	As Shown
OV	6	Ostrya virginiana	American Hophornbeam	2.0" Cal.	B&B	As Shown
PD	5	Populus deltoides	Cotton Wood	2.0" Cal.	B&B	As Shown
	17	**Total**				
Ornamental Trees						
CR	3	Cornus florida	Flowering Dogwood	1.5" Cal.	B&B	Mult-Stem, 3 Cane Match
CC	2	Cercis canadensis	Eastern Redbud	1.5" Cal.	B&B	Mult-Stem, 3 Cane Match
CV	5	Crataegus viridis 'Winter King'	Green Hawthorn Winter King	1.5" Cal.	B&B	Single Leader
	10	**Total**				
Evergreen Trees						
JP	12	Juniperus virginiana	Eastern Red Cedar	1.5" Cal.	B&B	As Shown
PS	3	Pinus strobus	White Pine	1.5" Cal.	B&B	As Shown
	15	**Total**				



VICINITY MAP
SCALE: 1" = 2000'

PLANTING LEGEND:

- DECIDUOUS SHADE TREE
- BUFFER DECIDUOUS SHADE TREE
- DECIDUOUS ORNAMENTAL TREE
- EVERGREEN TREE

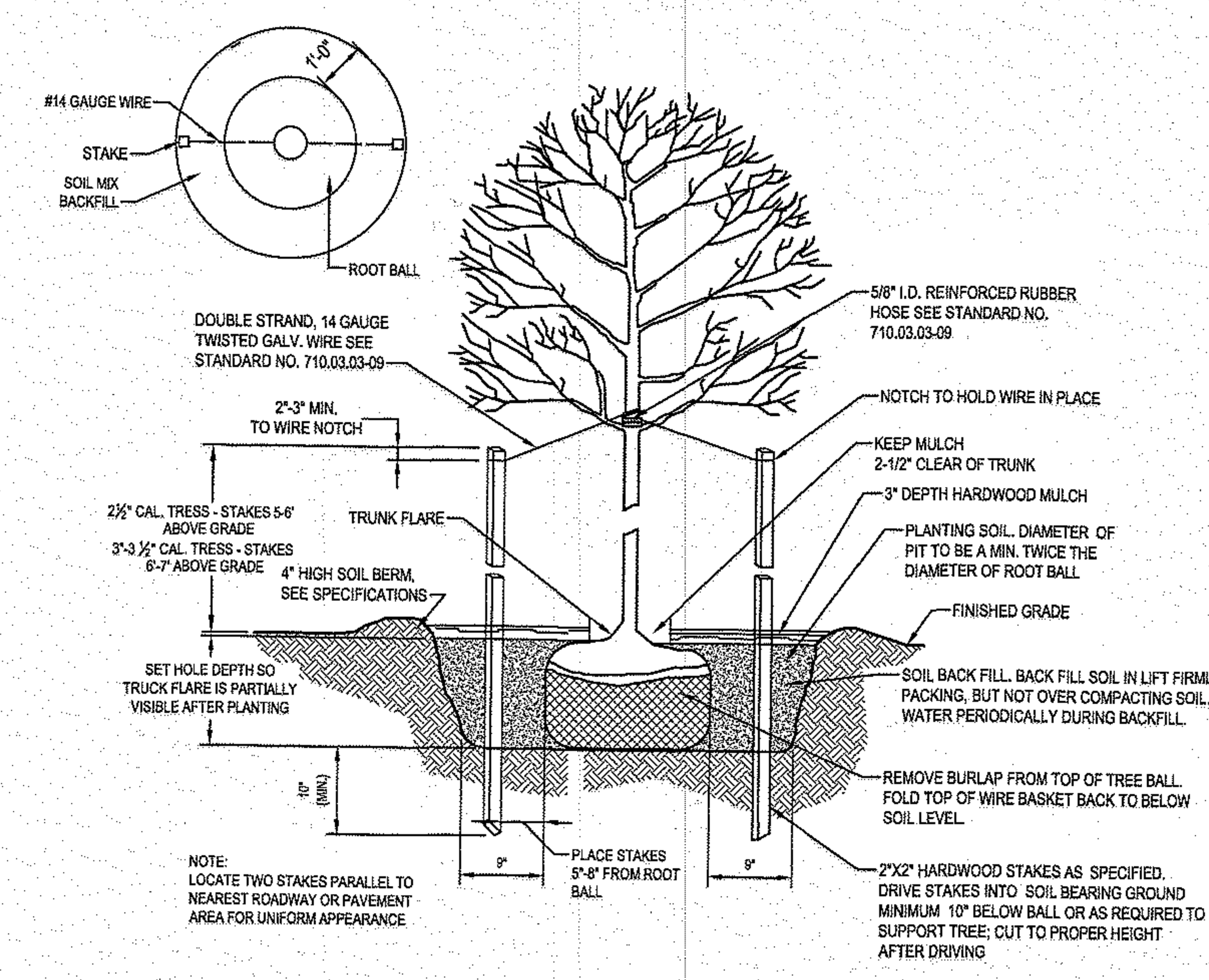
CRITICAL AREA NOTES:

1. PROPERTY AREA: 12.924 AC
2. PROJECT LIMITS OF DISTURBANCE: .33 AC (100% WITHIN CRITICAL AREA)
3. AFFORESTATION REQUIREMENT: 1:1 MITIGATION = 7,841 SF
4. PLANTING CREDITS REQUIRED:
   - CANOPY STREET TREES (2 IN. CAL.) - 200 SQFT CREDIT
   - CANOPY BUFFER TREES (¾ IN. CAL.) - 100 SQFT CREDIT
   - UNDERSTORY TREES (¾ IN. CAL.) - 75 SQFT CREDIT
   - EVERGREEN TREES (¾ IN. CAL.) - 75 SQFT CREDIT
5. PROPOSED ON-SITE PLANTING:
   - 30 - CANOPY STREET TREES (2 IN. CAL.) (30*200 SQFT = 6,000 SQFT)
   - 10 - UNDERSTORY TREES (1.5 IN. CAL.) (10*75 SQFT =750 SQFT)
   - 15 - EVERGREEN TREES (1.5IN. CAL.) (15*75 SQFT = 1,125 SQFT)

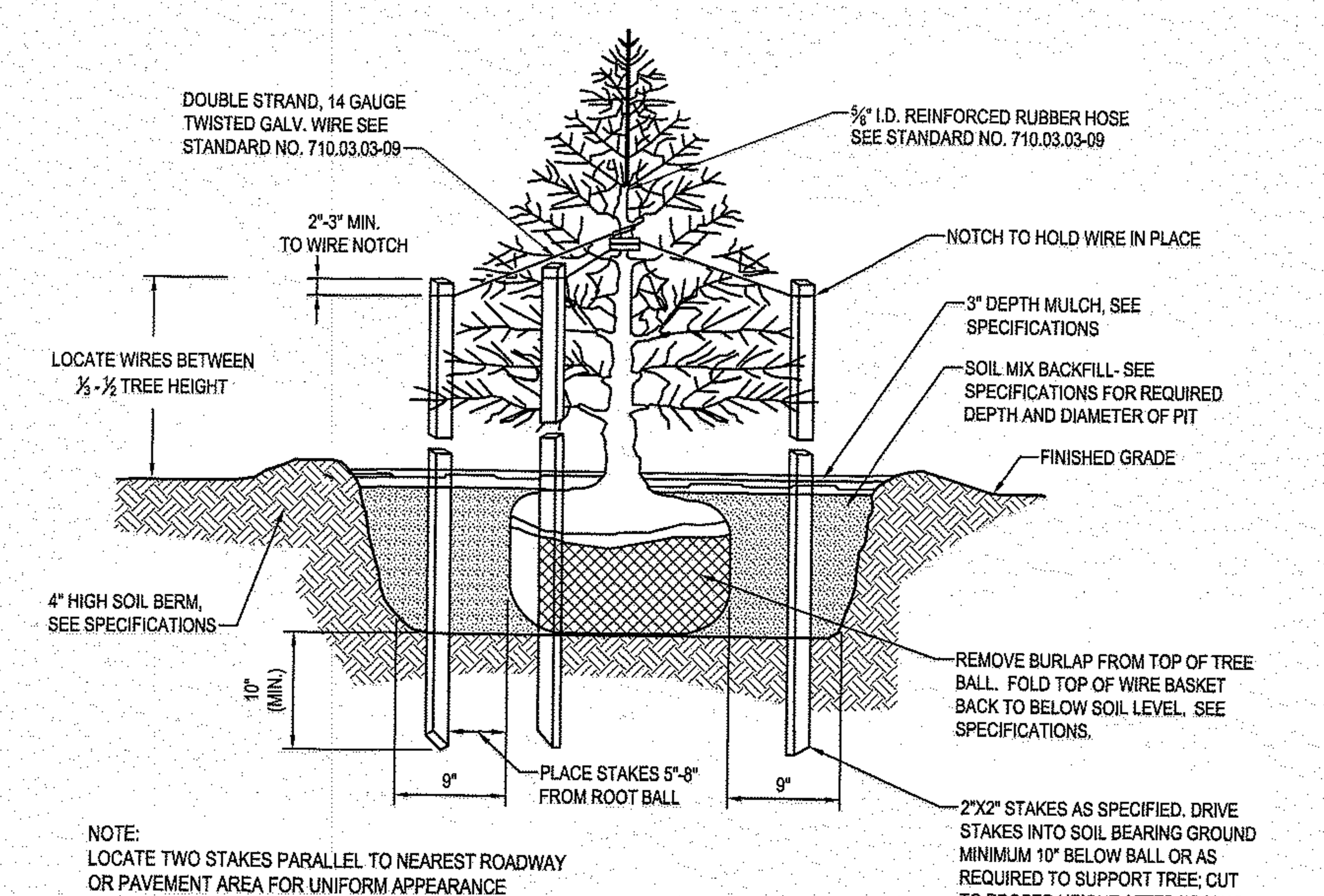
TOTAL CREDITED COVERAGAE: 7,875 SQFT

PLANTING GENERAL NOTES:

1. ALL PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.
2. MAINTENANCE PERIOD: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, MULCHING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING TREE-STABILIZATION DEVICES, RESETTING TO PROPER GRADES OR VERTICAL POSITION, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS FOR A TWO (2) YEARS, STARTING FROM DATE OF PLANTING COMPLETION.
3. ALL TREES WILL BE PLANTED WITH PROPER PLANTING PRACTICES, STAKED WITH 6' TREE STAKES, WIRE AND A PROTECTIVE HOSE.
4. TREES WILL RECEIVE COMPOST AMENDMENT, HARDWOOD BARK MULCH AT A DEPTH OF 2-3". AND WILL BE FERTILIZED WITH PHC 4-7-4 FERTILIZER WITH MYCORRHIZAL FUNGI AND A WATER ABSORBENT GEL.
5. APPLY WEED-CONTROL BARRIERS OF NONWOVEN GEOTEXTILE FILTER FABRIC OR COMPOSITE FABRIC
6. A TREE SAUCER WILL BE CREATED TO HELP RETAIN WATER.
7. TREES TO BE PLANTED ACCORDING TO PLANTING SEASON (FALL: MID AUGUST - MID OCTOBER, SPRING: MID MARCH - MID JUNE) AND WITH A RANDOM PATTERN.



ELEVATION
DECIDUOUS TREE
NOT TO SCALE



ELEVATION
EVERGREEN TREE
NOT TO SCALE

AN ALTERNATIVES ANALYSIS WAS APPROVED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY ON JULY 23, 2020. CONDITIONS WERE PLACED ON THIS APPROVAL TO REDUCE WATER QUALITY IMPACTS INCLUDING RESTORATION OF TEMPORARILY DISTURBED TIDAL WETLAND BUFFER.

BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
BUFFER MANAGEMENT PLAN APPROVAL
Approval by: [signature] Date: 9/1/20
Environmental Impact Review
Buffer management Plan # CA-20-030

CAUTION:
IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.
1"=50'-0" 50 0 25 50 100

CONTRACT COMPLETION BOX
CONTRACTOR: ____
DATE COMPLETED: ____
INSPECTOR: ____
PIPE MATERIAL (Pressure Only) ____

DWG. FILENAME:

[signature] FACILITIES CHIEF 8/31/2021
SIGNATURE OF OWNER/DEVELOPER TITLE DATE

SEAL: LANDSCAPE ARCHITECT, STATE OF MARYLAND, 3394
DATE: 8/9/20

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. ____, EXPIRATION DATE ____

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE
			R.O.W NO.			PLAN SCALE:
CONTRACT COMPLETION BOX						PROFILE SCALE:

DGN BY: J.K.
DWN BY: H.H.
CHKD BY: B.L.

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER

REVIEWED BY:
DATE REVIEWED:

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: ____ DIRECTOR
DATE:
BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ____ CHIEF
DATE:

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION

STORM DRAIN LINE REPAIR

BUFFER MANAGEMENT PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT MULTI-PURPOSE CENTER

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2882	22005 PO0
	JOB ORDER NUMBER
	242-212-307-0472
	SHEET 14 OF 15
	DRAWING NUMBER
	C506
	FILE NO.:

BALTIMORE COUNTY MARYLAND

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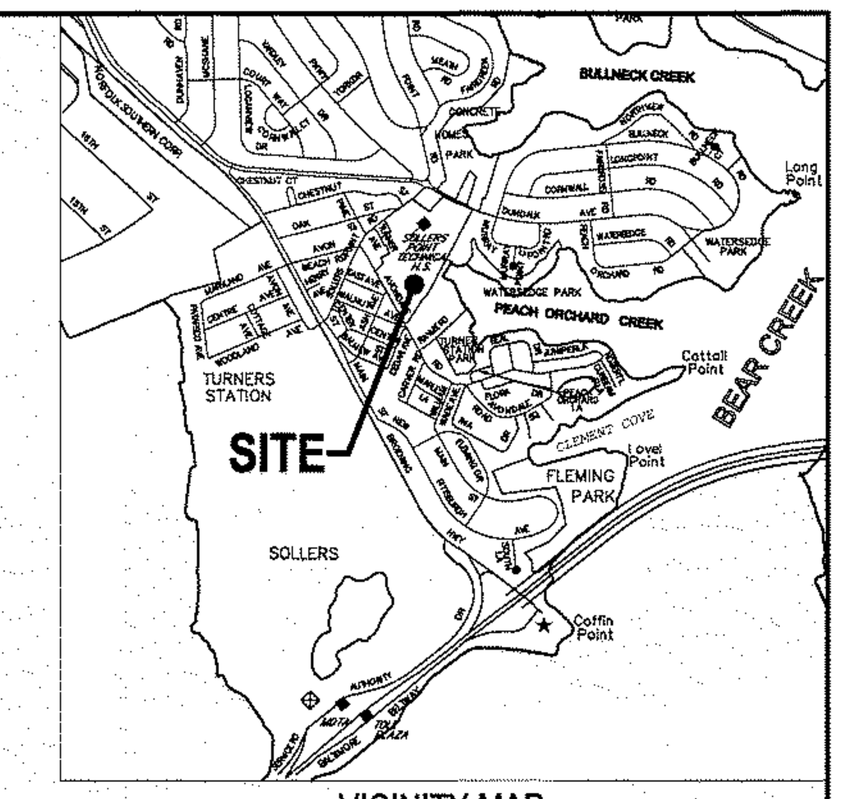

VICINITY MAP

SCALE: 1" = 2000'

LEGEND

	EXISTING
BUILDING	EX. BLDG.
PAVING	EX. PAVING
CONCRETE WALK	EX. CONC.
PROPERTY LINE	
EASEMENT	
CURB	
FENCE	X
CONTOUR	15 / 14
SPOT ELEVATION	x 14.85
STORM DRAIN	D
SANITARY	SS
WATER	W
ELECTRIC	E
GAS	G
STREAM BUFFER	SB
CENTER LINE	
COMMUNICATIONS	T
MANHOLE	Ⓓ Ⓢ Ⓔ
INLET	
STREET LIGHT	LP
POWER POLE	PP
WATER VALVE	WV
GAS VALVE	GV
FIRE HYDRANT	
SOIL LINE	MkB (C) / UuB (D)
LIMIT OF DISTURBANCE	LOD
FLOODPLAIN	FP
WETLAND	WL
WETLAND BUFFER	WB

GENERAL NOTES

1. THIS PLAN IS BASED UPON GIS DATA FROM BALTIMORE COUNTY, DOWNLOADED IN MAY, 2020 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
2. COORDINATES SHOWN HEREON ARE REFERENCED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83(2011).
3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLELY UPON GIS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING. NO UTILITY DESIGNATION WAS COMPLETED FOR THIS PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES TO REMAIN.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY INVERTS AND CLEARANCES FROM NEW WORK PRIOR TO START OF ANY WORK.
10. THE WORDS "CERTIFY" OR "CERTIFICATION" AS USED HEREON ARE UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE UNDERSIGNED SURVEYOR, BASED UPON HIS BEST KNOWLEDGE, INFORMATION, AND BELIEF. AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

Sollers Point Impacts - LOD - 0.33 AC	
Resource	**Impact Quantity (AC)**
Wetland	0.00
Wetland Buffer	0.18
Critical Area (IDA, Intensely Developed Area)	0.33
Floodplain Zone AE	0.21
Floodplain Zone X	0.12

BALTIMORE COUNTY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY
CRITICAL AREA MANAGEMENT PLAN
Approved by: Elizabeth Erickson date: 9/1/20
Environmental Impact Review
Critical Area Management Plan #: CA-20-80

CAUTION:
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USE THE GRAPHIC SCALES.

1"=50'-0" (graphic scale: 50, 0, 25, 50, 100)

CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL (Pressure Only)	

DWG. FILENAME:

G M Sorm — FACILITIES CHIEF — 8/31/2021
SIGNATURE OF OWNER/DEVELOPER — TITLE — DATE

SEAL: PROFESSIONAL ENGINEER, STATE OF MARYLAND, NO. 34682
DATE: 8/19/20

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34682, EXPIRATION DATE 07/08/21

DGN BY: J.K.
DWN BY: H.H.
CHKD BY: B.L.

AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWING SCALE	
						PLAN SCALE:	
			R.O.W NO.				
CONTRACT COMPLETION BOX						PROFILE SCALE:	

BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER
REVIEWED BY:							
DATE REVIEWED:							

DEPARTMENT OF PUBLIC WORKS
APPROVED BY: ______ DIRECTOR
DATE: ______

BUR. OF ENGINEERING & CONSTRUCTION
APPROVED BY: ______ CHIEF
DATE: ______

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION

STORM DRAIN LINE REPAIR

PROPOSED CONDITIONS PLAN

SOLLERS POINT MULTIPURPOSE CENTER
323 SOLLERS POINT RD.
DUNDALK, MD 21222

SUBDIVISION: SOLLERS POINT MULTI-PURPOSE CENTER

COUNCILMATIC DISTRICT: 7
CONGRESSIONAL DISTRICT: 2
LEGISLATIVE DISTRICT: 6
ELECTION DIST. NO.:12c7

SHEET DESIGNATION	CONTRACT NUMBER
2021-2884	22005 PO0

JOB ORDER NUMBER: 242-212-307-0472
SHEET 15 OF 15
DRAWING NUMBER: C507
FILE NO.:

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Aug 18, 2020 - 2:32pm User:jkrueger